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15¢ PER PACKET

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INFORMATION
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ON
GARDENING
AND
FARMING
1921 EDITION

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GENTLEMEN
SWEET CORN
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BEAUTY
BEET
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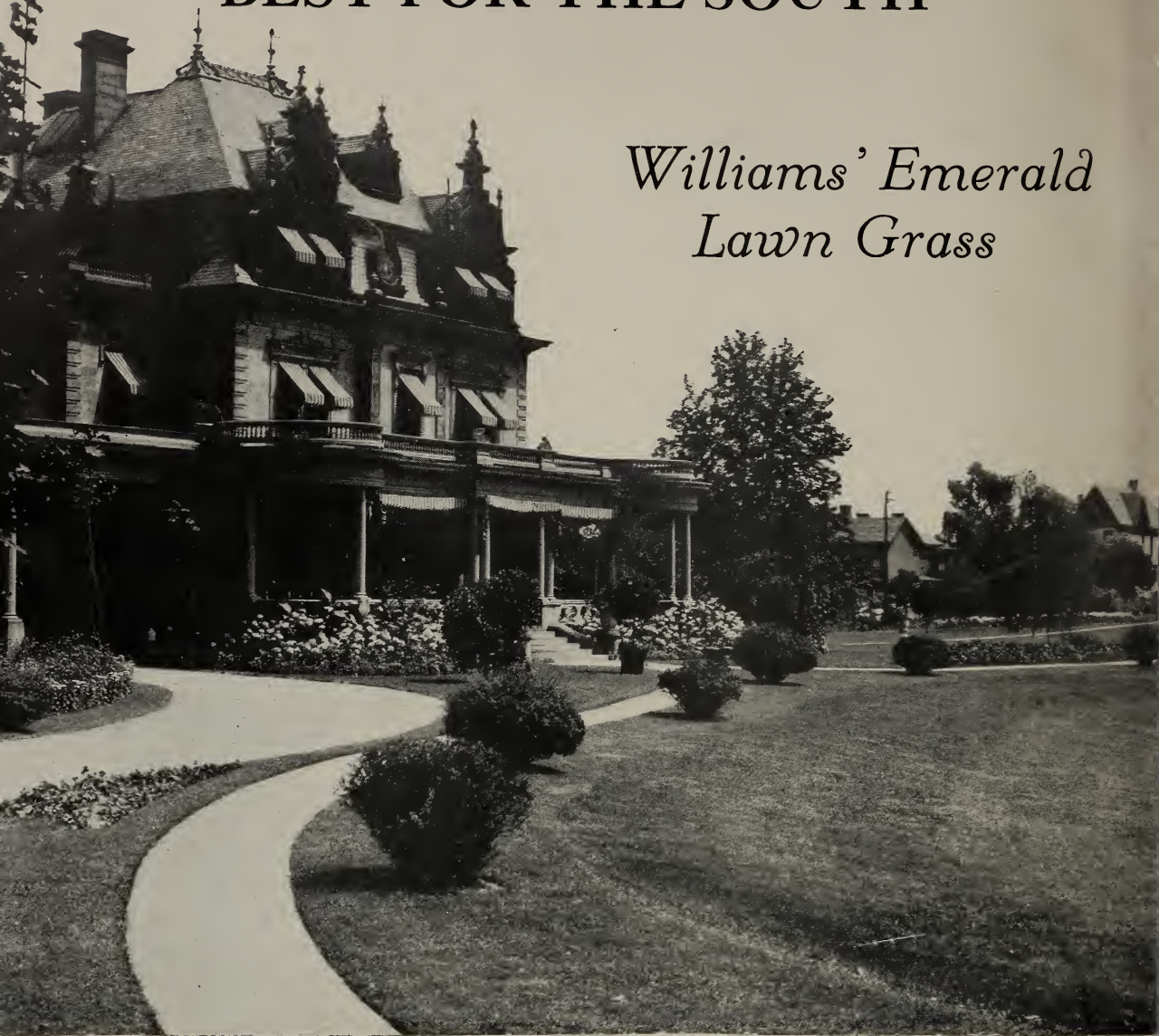
69-71 COMMERCIAL PLACE - NORFOLK, VA.

BRANCH STORE, PLANT CITY, FLA.

3 PACKET EACH OF THE 4 VARIETIES FOR 50¢ POSTPAID

EMERALD LAWN GRASS SEED BEST FOR THE SOUTH

*Williams' Emerald
Lawn Grass*



HOW TO MAKE A LAWN

Many lawns are patches of bad turf, but everyone appreciates the close deep green "velvet pile" that good seed and good management will give.

In forming a new lawn the ground must be carefully prepared—an open level piece is preferable, but where this is not obtainable the soil must be removed from the highest to the lowest parts until the surface is quite level.

The ground must be well dug to a depth of twelve to eighteen inches, and if poor, enriched with farmyard or chemical manure.

Lawns should be sown either in early spring or in the fall.

The seed should be sown thickly on newly raked or harrowed surface, covering with soil about one-quarter inch deep. This may be accomplished by raking the surface first in one direction and then in an opposite direction. When the raking is finished roll the ground thoroughly with a heavy iron roller.

Williams' Special Fertilizer applied as a top dressing every few months will produce the much desired fine green surface.

WILLIAMS' EMERALD LAWN GRASS

This famous Lawn Grass Seed Mixture has been thoroughly tested and proved the best for our Southern climate.

Sow 1 lb. to every 300 square feet; 4 to 5 bushels to the acre.

Price—1 lb., 40c; 5 lbs., \$1.75; 1 bushel (24 lbs.), \$8.00. Prepaid parcel post or express.

NORFOLK LAWN GRASS

This mixture will prove satisfactory for those desiring a cheaper grade of grass seed. However, we recommend our Emerald Lawn Grass Mixture as far superior.

Price—1 lb., 30c; 2 lbs., 55c; 1 bushel (18 lbs.), \$4.50. Prepaid parcel post or express.



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WILLIAMS SEED COMPANY

SEED GROWERS AND MERCHANTS

69-71 COMMERCIAL PLACE

NORFOLK, VA., January 1, 1921.

G. D. WILLIAMS, VICE PRESIDENT
CHAS. H. WILLIAMS, SECY. TREAS.

ANNUAL MESSAGE TO OUR PRESENT AND FUTURE CUSTOMERS:-

We wish to call our customers attention to the change in name of our book from catalog to "INFORMATION BOOK ON GARDENING AND FARMING." This change was necessary as our book was really more than a catalog, in fact a fund of knowledge for the professional as well as the amateur gardener.

From a very small beginning fourteen years ago our business has steadily increased until today we are one of the largest seed firms in the south. We attribute this phenomenal success to the fact that all our seeds are grown under our own personal supervision and are carefully tested for germination before being offered for sale.

Mail orders are one of our specialties and last year we filled thousands of these orders. We have greatly enlarged this department and are now equipped to give prompt, efficient service.

A home garden assists in keeping down the household expenses besides providing the family with fresh vegetables and flowers. Gardening is recommended to all as the most fascinating, congenial form of open air exercise, besides the great health building results that are sure to ensue from a short time each day at garden work.

Of course you want your 1921 garden to be the best you have ever had. In order to make this garden both beautiful and bountiful we suggest the following:- First, that you make up your order for WILLIAMS' RELIABLE SEEDS using the convenient order form in first part of this book. Then, if you put the same effort in cultivating and caring for this garden that we have in breeding the seed for you we are sure your WILLIAMS' GARDEN will prove a source of both pleasure and profit.

Yours very truly,

WILLIAMS SEED COMPANY,

President.



LHW/KK

QUOTATIONS SUBJECT TO MARKET FLUCTUATIONS AND BEING UNSOLD, F.O.B. NORFOLK, VA. UNLESS OTHERWISE SPECIFIED

MAIL ORDERS

Our Specialty

How to Order and Remit—Read Carefully

Our Free Delivery Offer

Early Orders Kindly send in your order as soon as convenient after receiving catalog. Our rush season comes in the months of March and April. Orders sent as early as possible secure the promptest shipment and from our complete stocks.

Seeds Postpaid by Mail Remember that the price given in this list include delivery of all seeds in packet, ounce, quarter-pound, pound and two pound lots of beans, peas and corn, except where noted. Send us the amount named in this catalog, and we guarantee safe delivery by mail in these quantities. Purchasers pay transit charges on larger quantities of seeds, onion sets, potatoes, fertilizers, garden implements, poultry supplies and plants.

REMITTANCES may be made by Express Money Order, P. O. Money Order or Bank Draft; if stamps or cash send in a Registered Letter. We must decline sending goods C. O. D. unless 25 per cent. of their value accompanies the order.

Stamps On orders of seeds where the amount is less than 50 cents, we will accept U. S. Postage stamps in good condition (one, two, three and five-cent stamps preferred), the same as cash, but we would ask those remitting stamps to wrap them in oiled paper, if possible, to prevent their sticking together or to the order.

ACCOUNTS—Parties having no account with us—who order goods without remittance—must furnish satisfactory reference.

WE MAKE NO CHARGE FOR SHIPPING AND CARTING of goods to any railroad station, steamship line or express office.

WE MAKE NO CHARGE FOR PACKING CASES, bas-

kets or barrels. We charge for cloth bags only and these at cost. $\frac{1}{4}$ bus. 20c., $\frac{1}{2}$ bus. 25c., 1 bus. 35c., 2 bus. 60c.

Every time you order seeds or write to us, be sure and write your name, post office and State plainly. Hundreds of orders are delayed every year because the sender forgets to sign his name or give his post office address.

Parcel Post. Customers living on R. F. D. routes, and beyond express delivery, will aid us by stating: "Goods reach us by Parcel Post Only" to avoid mistakes in sending by express.

The Convenient Order Sheet which is furnished with the catalog should always be used, and we will take pleasure in supplying duplicates whenever requested.

COUNTER CUSTOMERS—We suggest to those who purchase in person at our store the advantage of having their lists made out before they call. In any case it is a great saving of time to the purchaser. The list should have full name and address written on it so that our catalogues may be mailed to the purchaser as issued. We also urge early purchases. January and February are good months in which to purchase.

ERROR IN THE FILLING OF ORDERS—We use the greatest care in filling, checking and packing orders. Yet should anything be omitted we will promptly forward when advised. Keep a duplicate copy of your order for comparison.

TESTIMONIALS FROM CUSTOMERS—We are always pleased to hear from our customers regarding the results of their gardens. Photographs of gardens and particularly of vegetables and flowers, are thankfully received by us.

QUESTIONS AND CORRESPONDENCE—We endeavor to answer promptly all letters of inquiry—which should be on separate paper from orders.

Prices quoted in this catalog are subject to change without notice.

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Garden and Farm Operations for Each Month

We give Below Monthly Instructions for the Garden and Farm.
These Hints Are Compiled for the Southern States

January

The ideal exposure for a vegetable or flower garden is south or southeast and for satisfactory results a suitable soil, pure seed and clean culture are essential.

Cabbage, Lettuce, Radish, Beet, Cauliflower and Onion may now be sown in the hot-bed. Top dress asparagus beds with manure. New beds should now be made. This is a good month to obtain canes for staking peas, tomatoes and beans, hauling manure and making necessary repairs. Prepare hot-bed frames for use next month.

Farm Suggestions. Top dress with manure grass or clover fields and fall sown grain. If weather permits use every opportunity to prepare land for spring crops.

Now is the time to look over the catalog and make out your early seed order. Don't wait until the planting time arrives.

February

Sow in the hot-beds or cold frames early cabbage, cauliflower, beet, onion, lettuce and radish. In the hot-bed, egg plant, pepper and tomato. After the 20th of the month, weather permitting, sow in the open ground early varieties of peas, spring kale, beet, spinach, carrot, celery, radish, parsley, etc., also rhubarb and horse radish roots.

Hardy varieties of flowers such as snapdragon, phlox, pansy, sweet william, pinks, hollyhock and poppy can now be sown in the hot-bed or in shallow boxes in the house for later transplanting to the open ground. Now is the time to fix up the lawn and sow Williams' Emerald Lawn

Grass. This grass is especially prepared for the southern climate. Top dress the lawn every few months with Williams' Special Lawn Fertilizer; this will produce the much desired fine green surface.

Farm Suggestions. Prepare plant beds and sow Canada field peas and oats. Towards the end of the month grass and clover seeds can safely be put in. Sow dwarf essex rape for sheep grazing.

Send in your order now for seeds, fertilizers and garden implements.

Don't wait till the spring rush comes along.

March

This is the busiest month of the year for garden or farm work. All varieties of hardy seeds can be sown now. Sow garden peas for succession cauliflower, early cabbage, onion, celery, spinach, leek, parsley, lettuce, radish, beet, asparagus, carrot, parsnip, salsify, corn salad, collards, kale, early turnip, etc.

Under glass sow tomato, pepper and egg plant seed.

Plant Irish potatoes, asparagus, rhubarb and horse radish roots, also onion sets. Sow out cauliflower, lettuce, onion and cabbage plants from the hot-bed, after the plants have been hardened by leaving the glass over the frames open at night. Sow all varieties of herbs in a warm, sheltered place. Prepare melon, cucumber and squash hills for later planting. All varieties of hardy annuals, also perennial flower seeds such as alyssum, snapdragon, foxglove, phlox, poppy, pansy, lobelia, candytuft, pinks, sweet william, larkspur, centaurea, mignonette, sweet peas and many others of the same class may now be sown. Gladiolus, cannas, tuberose, dahlia and caladium roots can now be planted. Cannas, caladium, perennial phlox, chrysanthemum, verbena, etc., may now be taken up, divided and replanted.

Farm Suggestions. March is the best month for sowing grass and clover seeds.

Sow winter and spring oats, Canada field peas, dwarf essex rape and plant artichokes for hogs and cattle.

See page 8 of this book for quantity of all farm seeds to be planted to the acre, also weight per bushel.

April

Plant early potatoes, sow cabbage, lettuce and tomato in the open ground for succession. Sow beets, celery, carrot, salsify, parsnip, onion, radish, spring kale, early turnips, kohlrabi, corn salad, collards, rhubarb, asparagus, globe artichoke, parsley, mangel wurzel and herbs.

Put out cabbage plants, onion sets and asparagus roots; bed sweet potatoes; plant early corn, garden peas, snap beans, and late in the month cucumber, squash, watermelon and cantaloupe can be planted.

Vine seeds are tender, so should the weather be cold or wet defer planting till May. All varieties of annual flower seeds, also perennial can be sown this month. Dahlia, canna and gladioli bulbs can still be planted out with success. Lawn grass can also be sown now.

Farm Suggestions. Sow spring oats, clover and grass seeds; the earlier the better. Later this month sow mangel wurzel for stock. Plant corn, cotton, chufas, peanuts, etc.

May

All kinds of tender seeds that need warm weather can be sown this month.

Seeds of the following vegetables can be sown: Asparagus, salsify, parsley, beet, pole and snap beans, sugar corn, tomatoes, radish, brussels sprouts, broccoli, corn salad and collards.

Plant black-eye cow peas, lima beans, butter beans, squash, cucumber, watermelon, cantaloupe, okra and pumpkin. Late cabbage and cauliflower seed can be sown this month, so as to have plants for setting out this fall. Set out tomato, pepper and strawberry plants. Follow our planting table instructions given on pages 8 and 9.

This is the month to watch for insects in the garden and an application of slug shot at this time will prevent trouble later on. Cultivate between rows and apply fertilizer as a top dressing. Tender varieties of flower seeds may now be sown in the open.

Farm Suggestions. Plant sugar beets and mangel wurzel for winter feeding. All the sorghums, millets and fodder plants can be sown likewise.

Cow peas, soja and navy beans can now be sown, also corn, peanuts and cotton. Be sure to inoculate soja beans and peanuts with Mulford culture before sowing.

June

Set out cabbage, tomato, egg plant, pepper and sweet potato plants.

Sow tomato for late crop, late cabbage and cauliflower for winter use.

Plant collards, okra, watermelon, cantaloupe, cucumber, squash and pumpkin for late use. Radish, pole, navy and snap beans, also sweet corn for succession. Cultivate rose beds and spray all your flower garden with Black Leaf 40 to destroy aphids.

Farm Suggestions. Sow the millets, cow peas, sorghum, soja beans, navy beans and plant late corn, also corn for ensilage.

July

Plant snap beans for succession and sugar corn for late roasting ears.

Set out late cabbage and celery plants for winter use. This is the best month to sow rutabagas, but they can also be sown in August.

Sow seed of collards, kohl-rabi, lettuce and turnip. Plant cucumbers for pickling and table use, also late potatoes for winter. A planting of early peas this month will bear a fair crop in September and October.

Seeds of all hardy flowers, such as pansy, snapdragon, foxglove, phlox, hardy candy tuft and asters can be sown now for next year's blooming.

Farm Suggestions. Sow German millet for hay or fodder, corn in drills for ensilage or fodder. Sow peas for hay or as a soil improver. Buckwheat can be sown for bees or as an improver of the soil, also for grain.

Sow crimson clover, also dwarf essex rape now. Be sure to inoculate your crimson clover with Mulford culture; it will well repay for the trouble.

August

Continue planting snap beans for the table and pickling purposes. Any cabbage or celery plants that have not been planted out should be put out at once. Sow cabbage and lettuce for fall use, also endive.

Winter radish, endive, collards, parsley, spinach, kale, turnip and rutabaga. Our fall catalog of bulbs and seeds is issued next month; send your name now for a copy; it's free.

Farm Suggestions. Crimson clover can now be planted and is good for feed, but is especially valuable as a soil improver when turned under.

Sow rye and clover now for grazing and afterwards it will make a crop of grain. Sow vetches, also rape, and towards the end of the month clover, grass and alfalfa seed can be safely put out.

September

Sow lettuce, early cabbage, cauliflower and onion seed for transplanting in November. This is a good month to put out onion sets. Sow winter radish, spinach, turnip, mustard, corn, salad, leek, parsley kale and early peas. Dutch bulbs for winter forcing, such as Roman hyacinths, freesia and paper white narcissi required for blooming in the house should now be started. Send for a free copy of our fall book on bulbs. This book contains a complete list of hyacinths, tulips, narcissi, crocus, etc., for autumn planting, besides valuable hints on culture. This is the ideal time to make a lawn and if sown with WILLIAMS' Emerald Lawn Grass that is especially prepared for the south the desired results will be obtained. See inside front cover of this catalog for further advice on lawns.

Farm Suggestions. Sow crimson clover as early in the month as convenient; it makes very good winter grazing and the land is greatly improved by growing this crop. Winter oats, rye, barley and vetches can all be sown now, also dwarf essex rape.

October

Onion can now be planted out. Sow early varieties of cabbage, such as early Jersey Wakefield, also turnips for salad, kale, mustard, spinach, collards and lettuce. The end of this month is the best time to plant out cabbage and lettuce plants to stand during the winter.

The old lawn can be renovated this month or a new one laid down and a top dressing of Williams' special fertilizer applied.

All varieties of shrubs and trees can be planted out this month. Send for a free copy of our fall book, which contains a list of the best shrubs, etc. Hyacinths, tulips, crocus, daffodils, jonquils and peony roots should now be planted in the open ground.

Farm Suggestions. Grass and clover can still be sown with good results. Sow wheat, oats, rye, barley, vetches and rape.

November

Sow lettuce and early varieties of cabbage in cold frame. Set out cabbage, lettuce and strawberry plants, also asparagus, rhubarb and horse radish roots. Lawn grass can still be sown with good results, but the earlier it is sown the better. All varieties of bulbs mentioned in the previous month can still be planted, in fact many varieties do better in the south planted this month.

Farm Suggestions. Wheat, rye, barley, vetches, timothy and herds grass can yet be sown, but the earlier they are in the better. Rye makes a fine soiling and cover crop and should be sown on all vacant lands.

December

Towards the end of this month cabbage and lettuce can be sown in the hot-bed or cold frame. Such vegetables as beet, radish, lettuce, etc., can be forced for winter use. Lettuce grows very satisfactory in hot-beds during the winter and will prove very profitable for those that try it. Plant marrowfat peas for market or garden use.

Canada field peas can be sown, but when seeded during the winter should be put in deeper than usual.

Send us your name now for a copy of our 1922 seed book; it will be bigger than ever.

Follow the above planting instructions and sow Williams' Reliable Seeds and your garden will be an assured success.

GARDEN and FARM GUIDE

Quantity of Seeds Usually Sown Upon an Acre

Barley, broadcast	2 to 3 bushels
Beans, dwarf, in drills	1½ bushels
Beans, pole, in drills	10 to 12 quarts
Beets, in drills	5 to 6 pounds
Broom Corn, in hills	8 to 10 quarts
Buckwheat	1 bushel
Cabbage in beds, to transplant	¾ pound
Carrots, in drills	3 to 4 pounds
Corn, in hills	8 to 10 quarts
Corn, for fodder	3 bushels
Cow Peas	1½ to 2 bushels
Cucumber, in hills	2 pounds
Flax, broadcast	1½ bushels
Hemp	1½ bushels
Melon, Musk, in hills	2 to 3 pounds
Melon, Water, in hills	4 to 5 pounds
Mustard, broadcast	½ bushel
Oats, broadcast	2 to 3 bushels
Onion, in drills	5 to 6 pounds
Onions for sets, in drills	50 pounds
Parsnip, in drills	4 to 6 pounds
Peas, in drills	1½ bushels
Peas, broadcast	3 bushels
Potatoes, cut tubers	10 bushels
Pumpkin, in hills	4 to 6 pounds
Radish, in drills	8 to 10 pounds
Rape dwarf, Essex, broadcast	5 to 6 pounds
Rye, broadcast	1¾ to 2 bushels
Sage, in drills	8 to 10 pounds
Salsify, in drills	8 to 10 pounds
Spinach, in drills	10 to 12 pounds
Spinach, broadcast	30 pounds
Squash, bush varieties, in hills	4 to 6 pounds
Squash, running, in hills	3 to 4 pounds
Sugar Cane or Sorgham	10 to 12 pounds
Sudan grass, broadcast	15 to 20 pounds
Sudan grass in rows	2 to 3 pounds
Tomato, to transplant	¾ pound
Turnip, in drills	½ to 1 pound
Turnip, broadcast	2 to 4 pounds
Vetches, broadcast	30 pounds
Wheat, broadcast	1½ to 2 bushels

Grass Seeds to the Acre

Red Clover	10 to 15 pounds
White Clover (Dutch)	10 pounds
Alfalfa or Lucerne	20 pounds
Alsike Clover	12 pounds
Sweet Clover, white blossom	25 pounds
Crimson Clover	12 to 15 pounds
Timothy	15 pounds
Hungarian Grass	1 bushel
Pasture Grass	2½ to 3 bushels
Blue Grass	2½ to 3 bushels
Rye Grass	1½ to 2 bushels
Orchard Grass	1½ to 2 bushels
Red Top Grass	1½ to 2 bushels
Mixed Lawn Grass	5 bushels
Millet	1 bushel

Time Required for Matur- ity of Different Garden Crops Reckoned From Day of Planting the Seed

Beans—String	45 to 65 days
Beans—Shell	65 to 75 days
Beets—Table	65 days
Beets—Stock	150 days
Cabbage—Early	105 days
Cabbage—Late	150 days
Cauliflower	110 days
Corn	75 days
Egg Plant	150 to 160 days
Lettuce—Heading	65 days

Melon—Water	120 to 140 days
Melon—Musk	120 to 140 days
Onion	135 to 150 days
Pepper	140 to 150 days
Radish	30 to 40 days
Squash—Summer	60 to 65 days
Squash—Winter	125 days
Tomato	150 days
Turnip	60 to 70 days
Spinach, average time	45 to 65 days

Average Time Required for Garden Seed to Germinate

Beans	5 to 10 days
Beet	7 to 10 days

Table Showing the Weight of Various Seeds

Barley	per bushel, 48 lbs.
Beans	per bushel, 60 lbs.
Buckwheat	per bushel, 48 lbs.
Broom Corn	per bushel, 46 lbs.
Blue Grass	per bushel, 14 lbs.
Clover Seed	per bushel, 60 lbs.
Corn, field, shelled	per bushel, 56 lbs.
Corn, on the ear	per bushel, 70 lbs.
Flax Seed	per bushel, 56 lbs.
Hemp Seed	per bushel, 40 lbs.
Hungarian Grass Seed	per bushel, 48 lbs.
Millet, Japanese	per bushel, 30 lbs.
German Millet	per bushel, 50 lbs.
Oats	per bushel, 32 lbs.
Onion Sets	per bushel, 32 lbs.
Orchard Grass	per bushel, 14 lbs.
Perennial Rye Grass	per bushel, 20 lbs.
Peas, Round	per bushel, 60 lbs.
Peas, wrinkled	per bushel, 56 lbs.
Rape, dwarf, Essex	per bushel, 50 lbs.
Red Top Grass Seed	per bushel, 10 lbs.
Rye	per bushel, 56 lbs.
Spinach	per bushel, 40 lbs.
Timothy Seed	per bushel, 45 lbs.
Top Onions	per bushel, 28 lbs.
Turnip	per bushel, 55 lbs.
Vetches	per bushel, 60 lbs.
Wheat	per bushel, 60 lbs.

Number of Plants to the Acre

Distance Apart	No. of Plants
1 foot by 1 foot	43,560
1½ feet by 1½ feet	19,360
2 feet by 1 foot	21,780
2 feet by 2 feet	10,890
2½ feet by 2½ feet	6,969
3 feet by 2 feet	7,260
3 feet by 3 feet	4,840
4 feet by 4 feet	2,722
5 feet by 4 feet	2,178
5 feet by 5 feet	1,742
6 feet by 6 feet	1,210
8 feet by 8 feet	680
10 feet by 10 feet	435
12 feet by 12 feet	302
15 feet by 15 feet	193
18 feet by 18 feet	134
20 feet by 20 feet	109
25 feet by 25 feet	70
30 feet by 30 feet	48

Number of Plants Produced From an Ounce of Seed

	Plants about
Asparagus	300
Broccoli	2,000
Cabbage	2,000
Cauliflower	2,000
Celery	3,000
Kale	2,000
Endive	3,000
Egg Plant	1,000
Leek	1,000
Lettuce	3,000
Pepper	2,000
Tomato	3,000
Sage	1,000
Thyme	5,000

Cabbage	5 to 10 days
Carrot	12 to 13 days
Cauliflower	5 to 10 days
Corn	5 to 3 days
Cucumber	6 to 10 days
Endive	5 to 10 days
Lettuce	6 to 8 days
Onion	7 to 10 days
Peas	6 to 10 days
Parsnip	10 to 20 days
Parsley	15 to 21 days
Pepper	9 to 14 days
Radish	3 to 6 days
Spinach	7 to 12 days
Salsify	7 to 12 days
Tomato	6 to 12 days
Turnip	4 to 8 days

Plant Your Dollars in Williams' Seeds and Watch Them Grow

PLANTING TABLE

	TIME TO PLANT	QUANTITY REQUIRED FOR ROW OF 100 FT.	DEPTH TO PLANT	QUANTITY REQUIRED FOR AN ACRE.	MATURED READY FOR USE.
ASPARAGUS SEED	Mar. and Apr.	1 ounce	2 inches	6 to 8 lbs.	2 to 3 years
ASPARAGUS ROOTS	Feb. and Mar.	100 roots	8 to 10 inches	5000 plants	1 to 2 years
BEANS, DWARF	Mar. to Aug.	1 pound	1 1/2 inches	1 1/2 bus.	8 weeks
BEANS, POLE	Apr. to July	1/2 pound	1 1/2 inches	3/4 bus.	10 weeks
BEANS, DWARF LIMA	May to July	1 pound	1 1/2 inches	1/2 bush.	12 weeks
BEANS, POLE LIMA	May to July	1/2 pound	1 1/2 inches	1/2 bush.	12 weeks
BEETS, TABLE	Feb. to Aug.	2 ounces	1 inch	5 lbs.	10 weeks
BEETS, SUGAR	Feb. to Aug.	2 ounces	1 inch	5 lbs.	12 weeks
BRUSSELS SPROUTS	Mar. to June	1/2 ounce	3/4 inch	1/4 lb.	12 weeks
CABBAGE SEED, EARLY	Sept. to Dec.	1/2 ounce	3/4 inch	1/4 lb.	12 to 15 weeks
	Mar. to May	1/2 ounce	3/4 inch	1/4 lb.	12 to 15 weeks
CABBAGE SEED, WINTER	May to July	1/2 ounce	3/4 inch	1/4 lb.	12 to 15 weeks
CABBAGE FOR PLANTS, EARLY	Mar., Apr., Nov.	75 plants	3/4 inch	1/4 lb.	12 to 15 weeks
CABBAGE FOR PLANTS, SUMMER	Apr. and May	75 plants	3/4 inch	1/4 lb.	12 to 15 weeks
CABBAGE FOR PLANTS, WINTER	May to Aug.	75 plants	3/4 lb.	1/4 lb.	12 to 15 weeks
CARROT	Mar. to Aug.	1 ounce	3/8 inch	4 lbs.	10 to 12 weeks
CAULIFLOWER	November	1/4 ounce	3/4 inch	1/4 lb.	15 weeks
CELERY	Apr. to July	1/4 ounce	1/4 inch	1 oz.	15 to 20 weeks
COLLARDS	Mar. to Aug.	1/2 ounce	3/4 inch	1/4 lb.	12 to 15 weeks
CORN, SUGAR	Apr. to July	1/2 pound	1 to 2 inches	6 to 8 quarts	10 to 15 weeks
CUCUMBER	Apr. to July	1/2 ounce	1 inch	3 lbs.	12 weeks
EGG PLANT	Feb. to May	1/2 ounce	1/2 inch	2 ozs.	15 to 20 weeks
ENDIVE	Apr. to Sept.	1 ounce	1/2 inch	1 lb.	10 to 12 weeks
HORSE RADISH ROOTS	Feb. to May	75 roots	2 inches		6 to 8 months
KALE, SPRING	Feb. to Oct.	1/2 ounce	1/2 inch	2 lbs.	10 weeks
KALE, WINTER	July to Sept.	1/2 ounce	1/2 inch	2 lbs.	12 weeks
KOHL-RABI	Mar. and Apr.	1/2 ounce	1/2 inch	1/4 lb.	12 weeks
LETTUCE	Mar. to Oct.	1/2 ounce	1/2 inch	1/2 lb.	8 to 12 weeks
MELON, MUSK	Apr. to June	1/2 ounce	1 inch	3 lbs.	12 weeks
MELON, WATER	May and June	1 ounce	1 inch	3 lbs.	15 weeks
MUSTARD	Mar. to Sept.	1 ounce	1/2 inch	2 lbs.	6 to 8 weeks
OKRA	Apr. to May	2 ounces	1 inch	8 lbs.	10 weeks
ONIONS FROM SEED	Mar. to May	1 ounce	3/2 inch	5 lbs.	15 weeks
ONIONS FOR SETS	Apr. to June	2 ounces	1/2 inch	50 lbs.	10 weeks
ONION SETS	Mar. and Apr.				
PARSLEY	Sept. to Nov.	1/2 quart	1 inch	10 bus.	12 weeks
PARSNIPS	Mar. to Sept.	1/2 ounce	1/2 inch	5 lbs.	10 weeks
PEAS, SMOOTH	Mar. to May	1/2 ounce	1/2 inch	5 lbs.	15 weeks
PEAS, WRINKLED	Feb. to May	1 pound	3 inches	1 1/2 bus.	6 weeks
PEPPER	July 15 to Aug. 15	1 pound	2 inches	1 1/2 bus.	10 weeks
PEPPER PLANTS	Feb. to June	1/4 ounce	1/2 inch	8 ozs.	15 weeks
POTATOES, EARLY	May and June	75 plants	1/2 inch	8 ozs.	8 weeks
POTATOES, LATE	Feb. to Apr.	1/2 peck	4 inches	10 bus.	12 weeks
SWEET POTATO PLANTS	July and Aug.	1/2 peck	4 inches	10 bus.	12 weeks
PUMPKINS	May and June	75 plants			15 weeks
RADISH	May to July	1/2 ounce	1 inch	3 lbs.	15 weeks
RAPE	Feb. to Sept.	1 ounce	1/2 inch	25 lbs.	4 weeks
RHUBARB	Apr. and May	1 ounce	1/2 inch	5 lbs.	6 to 8 weeks
RHUBARB ROOTS	Feb. to June	50 roots	4 inches	8 lbs.	
SALSIFY	Apr. to July	1 ounce	1/2 inch	5 lbs.	1 year
SPINACH	March-Aug. 15 to				15 weeks
SQUASH	Dec. 1.	1 ounce	1 inch	20 lbs.	6 weeks
TOMATO SEED	May to July	1/2 ounce	1 inch	4 lbs.	8 to 10 weeks
TOMATO FOR PLANTS	Feb. to June	1/4 ounce	1/2 inch	4 ozs.	15 weeks
TURNIPS AND RUTABAGAS	May to July	50 plants		4 ozs.	10 weeks
	Feb. to Sept.	1 ounce	1/2 inch	2 lbs.	8 weeks

FOREIGN NAMES OF VEGETABLES

English	German	French	Spanish	Italian	Portuguese
Asparagus	Spargel	Asperge	Esparrago	Sparagio	Espargo
Beans, Dwarf	Krupp-Bohnen	Haricot Nains	Frijole o Portos nano	Faginolo nani	Feljao
Beans, Pole	Strangen-Bohnen	Haricot a Rames	Habichuelas enredaderas	Faginolo rampicanti	Fava
Beet	Salatruben	Betterave	Remolacha o betabel	Barbaletola	Beterraba
Brussels Sprouts	Rosenkohl	Chou de Bruxelles	Col de Bruselas	Cavolo di Brusselles	Couve de Bruxellas
Cabbage	Kopfkohl, Kraut	Chou pomme	Col repollo	Cavolo cappuccio	Couve Repolho
Carrot	Carotten, Mohren	Carotte	Zanahoria	Carota	Cenoura
Cauliflower	Blumenkohl	Chou-fleur	Coliflor	Cavolfiore	Couve-flor
Celery	Sellerie	Celeri	Anio	Sedano	Aipo
Collards	Blatterkohl	Chicoree sauvage	Cabu (Col Sin Cogollo)		Couve verde ou gallega
Corn	Mais	Mais	Maiz	Mais	Milho
Cucumber	Gurken	Concombre	Pepino	Agretto	Pepino
Egg-plant	Eierpfanze	Aubergine	Berenjena	Petronciano	Berengella
Kale	Blatterkohl	Chou frise	Col Sin Cogollo	Indivia	Couve verde ou gallega
Kohl Rabe	Blatterrabi	Chou-rave	Col Rabano	Cavolo rapa	Couve Rabano
Lettuce	Lattich, Kopfsalat	Laitua	Lechuga	Porro	Alface
Melon, Musk	Melone	Melon muscade	Melon	Popone	Melao
Melon, Water	Wasser-Melone	Melon d'Eau	Sandia	Melone d'aqua	Melanchia
Mustard	Senf	Moutarde	Mostaza		Mostarda
Okra	Ocher	Gombaud	Quimbombo (Gomro)	Oera	Quiabos ou Quingombo
Onion	Zwiebel	Ognon	Cibolla	Cipollo	Cebola
Parsley	Petersilie	Persil	Perejil	Prezzemolo	Salsa
Parsnip	Pastinake	Panais	Chirivia	Pastinaca	Pastinaga
Peas	Erbesen	Pois	Chicarroso	Pisello	Ervilha
			Guisantes o Alherjas		
Pepper	Pfeffer	Piment	Pimiento	Penerone	Pimentas
Pumpkin	Kurbiss	Pitiron	Calabaza (Zapallo)	Zucca	Abobora
Radish	Radies	Radis	Rabanito or Rabano	Ravanello	Rabaneta
Spinach	Spinat	Foinard	Escinaca	Sinace	Esinafre
Squash	Kulchen-Kurbiss	Courge	Calabaza o Zapallo	Zucca	Abobora
Tomato	Lich-sen-fel	Pomme d'Amour	Tomate	Pomo d'ore	Tomate
Turnip	Weisse-Rube	Navet	Nabo	Navene	Nabo

Prices quoted include free delivery by Parcel Post or Express on Packets, Ounces, Quarter Pounds and Pounds.



THOMAS LAXTON PEAS

Williams' Selected Thomas Laxton

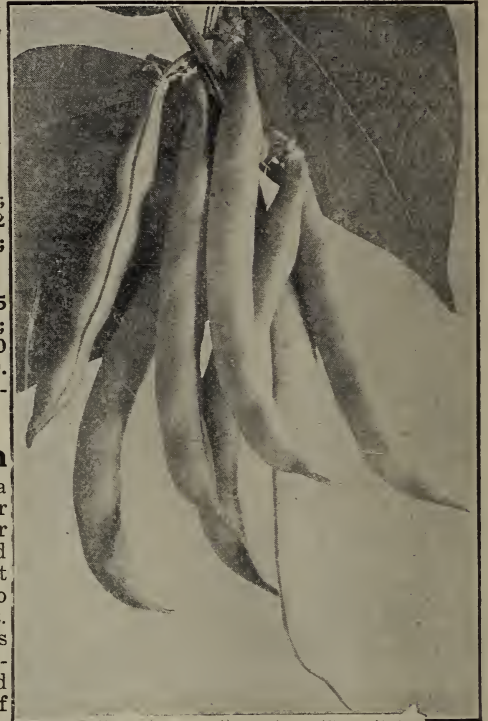
—The earliest of the large-podded wrinkled Peas, and a variety which has steadily grown in popularity with our trade until it bids fair to supplant all other varieties for early main crop. Closely resembling in appearance and habit the Gradus, which has for a long time held first place, it is, at the same time, so much harder and so much more productive that it is steadily displacing it. Although of the wrinkled variety, it is of very vigorous constitution and strong germinating power, and, consequently, can be planted much earlier than other wrinkled sorts. The vine is very vigorous, growing to a height of about 3 feet, and maturing its crop very uniformly. The pods, borne in great profusion, are large, about 4 inches long, blunt at the end, and well filled with peas of most excellent quality. Our strain is the result of careful selection and breeding, and is absolutely true to type. See engraving. Pkt. 10c; lb. 40c; 2 lbs. 75c; postpaid. Peck (14-lbs.) \$3.25; bushel (56-lbs.) \$12.50; not p.p.

Williams' Wonderful New Stringless Wax Beans

—Very early and productive. Pods $5\frac{1}{2}$ to 6 inches long, flat, and straight; color bright yellow. This is a selection from the popular Currie's Rust-Proof Wax, and is much superior, the pods being entirely stringless, more hardy, rust-resistant. See engraving.

Pkt. 10c;
lb. 40c; 2
lbs. 75c;
postpaid.

Peck (15
lbs.) \$3.25;
bushel (60
lbs.) \$12.50.
Not pre-
paid.



Williams' New Stringless Wax Beans

Williams' Early White Bush Squash, or Cymbling

The standard early variety for home or market, and most largely grown in the South. Of dwarf habit and upright growth, quite hardy and very productive, producing good-sized fruits, which are good shippers. The color is greenish-white when young, changing to creamy-white. See engraving. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.50; postpaid.

Special Offer: 1 Packet each of the
3 Specials on this page
25c; postpaid.

Gentlemen—I wish to advise you that I am more than pleased with results obtained from your seeds and do not hesitate to recommend your Company to any one wanting quality seeds. With best wishes, I am, Yours truly,
C. W. JOHNSON, Plant City, Fla.

Thousands of Testimonials

Every year we receive thousands of letters from satisfied customers but regret that space in this book does not permit our publishing all of them. These letters of praise come from every Southern state and tell of the wonderful results obtained with WILLIAMS' SEEDS. We are always glad to receive letters or photos of gardens showing how successfully our seeds grow.

Please Use Printed Form on Inside Front Cover When Making Out Your Order.



Early White Bush Squash or Cymbling.



White Tipped Scarlet Turnip Radish

Williams' Early Scarlet Turnip White-Tipped Radish

An extra-early sort, very popular with market growers. Handsome in appearance, bright red, with white tip. Tops are small, allowing of close planting. Our strain is superior to most sorts offered, making a nice globe-shaped clean root with no laterals. See engraving. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 25c; lb. 75c. Postpaid.



Williams' Perfected Big Boston Lettuce



Williams' New Rival Muskmelon

Williams' New Rival Muskmelon

A selected and very much improved strain of the Rocky Ford type, but bred up to a great superiority. The vines grow vigorously and set fruit in profusion and earlier than most other sorts. The fruits are oblong in shape, well ribbed and netted, of fine appearance and splendid shipping qualities. The flesh is thick, green, shading to orange at the center, and of delicious flavor. See engraving. Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 60c; lb. \$2.00. Postpaid.

Williams' Perfected Big Boston Lettuce

(Special Double-Rogued Stock)

—Without doubt Big Boston is the most popular Head Lettuce for shipping at this time. Knowing this, we have worked hard to breed up a strain which would equal, if not prove superior, to any on the market. A solid head of great size. Has very few wasted leaves; indeed, the plant is nearly all heart, exceedingly crisp and sweet. Well adapted for spring and fall culture and for forcing in cold-frames. See engraving. Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 40c; lb. \$1.50. Postpaid.

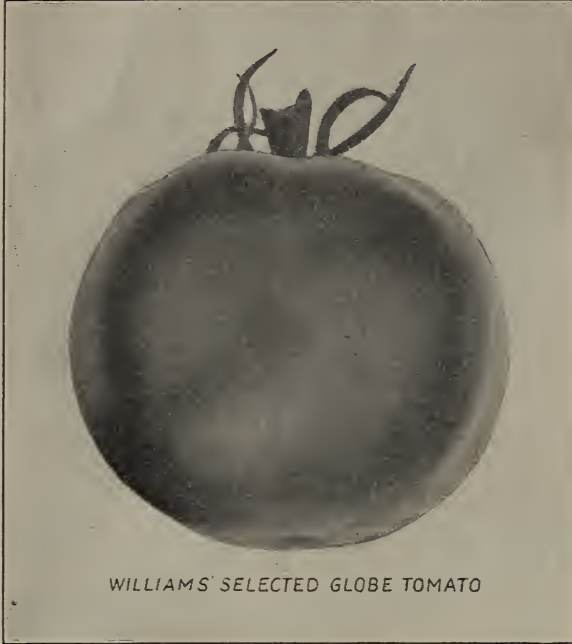
ONE PACKET EACH OF THE THREE SPECIALS ON THIS PAGE FOR 25c, POSTPAID.

Gentlemen:

We have used your seeds on our various farms and wish to advise you they have all proved entirely satisfactory.

Yours very truly,

L. J. UPTON & CO.
Norfolk, Va. per T. R. Upton.



WILLIAMS' SELECTED GLOBE TOMATO

Williams' Globe Tomato A very popular variety with market gardeners, especially in the South. The short-jointed vines are vigorous and very productive. The tomatoes mature a little earlier than most main crop varieties. The fruit is borne in clusters, average large, though a little uneven in size and are nearly round or globe-shaped. Some a little elongated. They are smooth—ripen up thoroughly and they are of a glossy purplish rose color; flesh firm, has few seeds, and is of mild flavor. A good keeper and shipper. (See engraving.) Price, Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.35; lb. \$4.50; postpaid.

The seeds we have purchased from you the past few years have done wonderfully and we take pleasure in recommending them to anyone desiring the best seeds.

R. E. THRASHER & SONS,
R. F. D. No. 3, Berklev, Va.

Williams' Peerless Cucumber

—Perfection has been attained in this grand improvement in the Cucumber family. It is an early, prolific and continuous producer of uniformly large and symmetrical fruits of an intensely rich deep green color. It runs very close to type, bearing practically no mis-shapen fruit or culls. It is ideal for slicing, flesh being compact, fine-grained, sparkling white and of most refreshing and delightful flavor. The vines are vigorous, quite healthy, mildew-proof, maintaining their luxuriance and bearing from the earliest to the latest season. Either for home garden or market this variety is without a peer. (See engraving.) Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.35; postpaid. Write for prices on large quantities.

ASK FOR A COPY OF OUR FREE LEAFLET ON TOMATO CULTURE.



Williams' Peerless Cucumber, 10c Per Packet

If you want a fine, deep green, velvety lawn, sow our "Emerald Lawn Grass Seed" described on inside front cover.

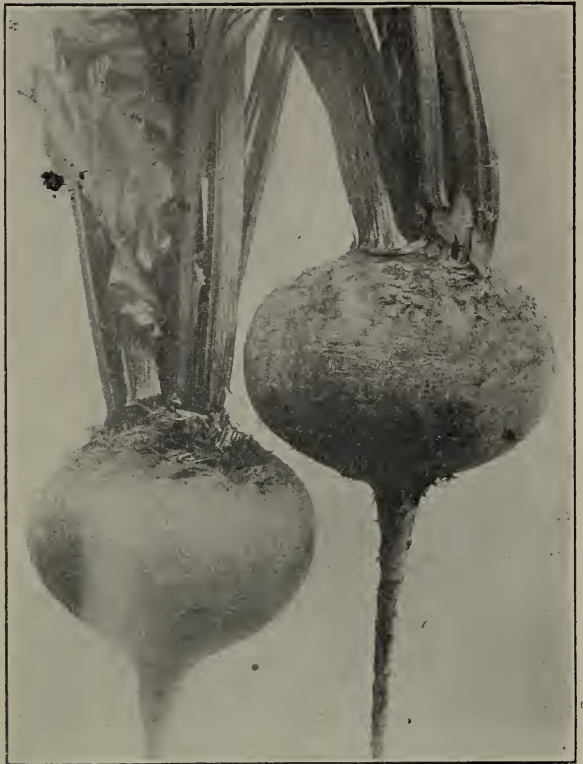
WILLIAMS' SPECIALTIES FOR 1921

POLE BEANS



Kentucky Wonder Pole Beans

Kentucky Wonder The most popular of all green-podded snap Pole Beans. Marvelously productive, bearing abundantly and continuously from July to frost. Large, thick, stringless pods, which are meaty, tender, and delicious. The vines, which are very vigorous, growing as high as 6½ feet, are literally covered from top to bottom with great clusters of Beans. The seeds are oval, slightly flattened. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid. Peck (15-lbs.) \$3.00; bushel (60-lbs.) \$11.50; not prepaid.



Williams' Crimson Beauty Beet

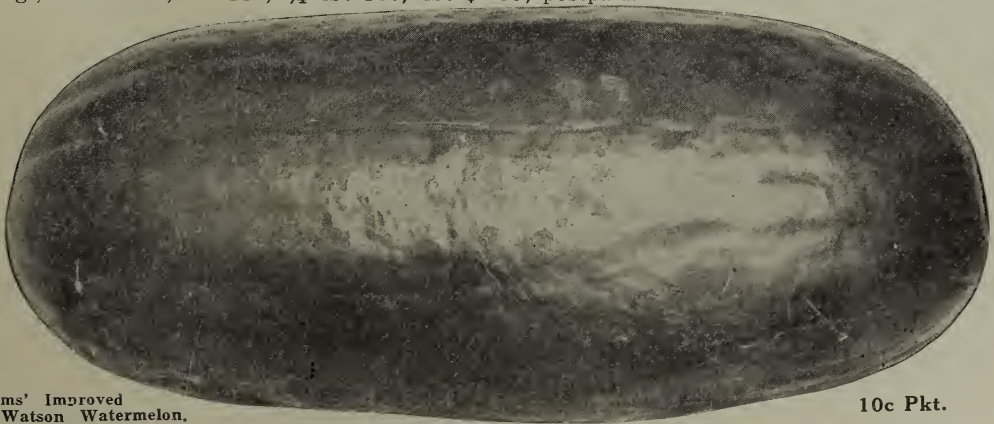
WATER-MELON

Williams' Tom Watson—The vines are vigorous in growth, hardier than other sorts, producing shipping fruits earlier. The melons are long, of large size, often weighing 50 to 75 lbs. apiece, with beautiful dark green rind, with fine

veining and permanent gloss. The rind is tough enough to make it an ideal shipping sort. The meats ripens close to the skin, is solid, rich red in color, and of exceptionally fine flavor and quality. Pkt. 10c; oz. 15c; ¼-lb. 30c; lb. \$1.00; postpaid.

BEETS

Williams' Crimson Beauty Beet A fine selection of blood-red Beet, extremely smooth and of symmetrical growth, rich color and desirable shape. In our trials the past season this beet matured several days before Crosby's Egyptian. We recommend it not only for extreme earliness, but as superior in quality to any other table variety. See engraving.) Pkt. 10c; oz. 15c; ¼-lb. 50c; lb. \$1.50; postpaid.



Williams' Improved Tom Watson Watermelon.

10c Pkt.

Williams' Vegetable-Garden Collections

WILL SAVE YOU TIME AND MONEY ALL READY FOR PLANTING

For the benefit of such of our good friends as care to take advantage of these time-and-worry-savers, we offer below three vegetable-garden collections. The large one will furnish enough vegetables for a family of five, and the others proportioned to smaller families.

Order one of these collections today. Plant to the extent of your garden's capacity, cultivate assiduously, weed regularly, and harvest-time will have a bumper crop in store for you.

Family Garden Collection For \$5

Suitable for a Garden about 50 ft. by 100 ft.

- 1 lb. Beans. Early Stringless Green Pod.
- 1 lb. Beans. Red Valentine.
- 1 lb. Beans. Williams' Stringless Wax.
- 1 lb. Beans. Bush Lima.
- 1 oz. Beet. Early Detroit.
- 1 oz. Beet. Crimson Beauty.
- 1 pkt. Cabbage. Early Jersey Wakefield.
- 1 pkt. Cabbage. Succession.
- 1 oz. Carrot. Danver's Half Long.
- 1 oz. Carrot. Chantenay.
- 1 pkt. Cauliflower. Early Snowball.
- 1 pkt. Celery. White Plume.
- 1 lb. Corn. Country Gentlemen.
- 1 lb. Corn. Golden Bantam. Early.
- 1 lb. Corn. Stowell's Evergreen. Late.
- 1 oz. Cucumber. Williams' Peerless.
- 1 pkt. Eggplant. Black Beauty.
- 1 pkt. Endive. Green Curled.
- 1 pkt. Hanover Salad.
- 1 pkt. Kohlrabi. White Vienna.
- 1 pkt. Leek. American Flag.
- 1 oz. Lettuce. Big Boston.
- 1 pkt. Lettuce. Salamander.
- 1 pkt. Lettuce. Paris White (Romaine).
- 1 pkt. Melon, Musk. New Knight.
- 1 pkt. Melon Musk. Williams' New Rival.
- 1 pkt. Melon, Water. Tom Watson.
- 1 oz. Okra. Perkin's Long Pod.
- ½ oz. Onion. White Globe.
- ½ oz. Onion. Yellow Globe.
- 1 pkt. Parsley. Double Curled.
- 1 oz. Parsnip. American Hollow Crown.
- 1 lb. Peas. Thomas Laxton.
- 1 lb. Peas. Gradus.
- 1 lb. Peas. Alaska.
- 1 pkt. Pepper. Large Bell.
- 1 pkt. Pumpkin. Cheese.
- 1 oz. Radish. Scarlet Globe.
- 1 oz. Radish. Red with White Tip.
- 1 oz. Radish. French Breakfast.
- 1 pkt. Salsify. Sandwich Island.
- ¼ lb. Spinach. Savoy.
- 1 pkt. Squash. Summer Crookneck.
- 1 pkt. Squash. White Bush.
- 1 pkt. Tomato. Globe.
- 1 pkt. Tomato. Ponderosa.
- 1 oz. Turnip. Pomeranian White Globe.
- 1 oz. Turnip. Yellow Globe.
- 1 oz. Turnip. Rutabaga. American Purple Top.

The price of the above collection, \$5.00.
Prepaid Parcel Post or Express.

The "Suburban Garden" Collection For \$2.75

Suitable for a Garden about 20 ft. by 100 ft.

- 1 lb. Beans. Stringless Green Pod.
- 1 pkt. Beans. Williams' Stringless Wax.
- 1 pkt. Beans. Burpee's Bush Lima.
- 1 oz. Beet. Williams' Crimson Beauty.
- 1 oz. Beet. Detroit Dark Red.
- 1 pkt. Cabbage. Jersey Wakefield.
- 1 pkt. Cabbage. Late Flat Dutch.
- 1 oz. Carrot. Danver's Half Long.
- 1 pkt. Celery. White Plume.
- 1 pkt. Corn. Country Gentlemen.
- 1 pkt. Corn. Golden Bantam.
- 1 pkt. Cucumber. Williams' Peerless.
- 1 pkt. Eggplant. Black Beauty.
- 1 pkt. Hanover Salad.
- 1 pkt. Kohlrabi. White Vienna.
- 1 pkt. Leek. American Flag.
- 1 pkt. Lettuce. Big Boston.
- 1 pkt. Lettuce. Romaine.
- 1 pkt. Melon, Musk. Williams' New Rival.
- 1 pkt. Melon, Water. Tom Watson.
- 1 pkt. Onion. White Globe.
- 1 pkt. Onion. Yellow Globe.
- 1 pkt. Parsley. Extra Curled.
- 1 lb. Peas. Thomas Laxton.
- 1 lb. Peas. Gradus.
- 1 oz. Radish. Scarlet Turnip.
- 1 oz. Radish. White Tip Turnip.
- 1 oz. Spinach. Savoy.
- 1 pkt. Tomato. Globe.
- 1 oz. Turnip. Pomeranian White Globe.

The price of the above collection \$2.75, Prepaid
Parcel Post or Express.

Small Garden Collection \$1.00

Suitable for a Garden about 20 ft. by 25 ft.

- 1 pkt. Beans. Stringless, Green Pod.
- 1 pkt. Beans. Williams' Stringless Wax.
- 1 pkt. Beet. Detroit Dark Red.
- 1 pkt. Cabbage. Early Jersey Wakefield.
- 1 pkt. Carrot. Danver's Half Long.
- 1 pkt. Corn. Country Gentlemen.
- 1 pkt. Cucumber. Peerless.
- 1 pkt. Hanover Salad.
- 1 pkt. Lettuce. Big Boston.
- 1 pkt. Onion. White Globe.
- 1 pkt. Parsley. Curled.
- 1 pkt. Peas. Early; 1 pkt. Medium.
- 1 pkt. Radish. Scarlet Turnip, White Tip.
- 1 oz. Spinach. Savoy.
- 1 pkt. Turnip. White Globe.
- 1 pkt. Tomato. Globe.

The price of the above collection, \$1.00, prepaid,
Parcel Post or Express.

THESE ARE OUR BEST SELECTIONS FOR THE AMATEUR AND BUSY MAN

Highest Grade Vegetable Seeds

ALPHABETICALLY ARRANGED

Most of the varieties listed herein are grown by us, under special contract, from our own stock seed. It is manifestly impossible, however, for any seedsman to grow each and every variety which he offers for sale, and, consequently, we are forced, in some instances, to secure such stocks from other unquestionable reliable sources. Careful and repeated germination tests are made of all the stocks, and only those showing high germination and vitality are offered for sale.

Attention is directed to the list of Specialties on pages 10 to 13. Special stock of our own origination and strains of certain varieties which, by careful selection and breeding, we have brought very close to perfection are listed there, and in making up your orders these should be included.

The cultural directions given, while necessarily limited, are as complete as space permits, and will be found very accurate.

Seeds Postpaid by Mail Remember that the prices given in this list include delivery of all seeds by packet, ounce, quarter-pound, pound and two-pound lots. Send us the amount named in this catalogue, and we guarantee safe delivery by mail, postpaid, in these quantities. Purchasers pay transit charges on larger quantities of seeds, also onion sets, potatoes, fertilizers, garden implements, plants and poultry supplies.

ASPARAGUS

One ounce will sow about 50 feet of drill

Culture Asparagus roots may be purchased in the Spring, or may be grown from seed sown in April or May, in good soil, in drills 12 to 14-in. apart. The permanent bed should be very rich with well-rotted manure, and thoroughly worked over to a depth of nearly 2 feet. The Asparagus roots (either one or two years old) are to be transplanted into this bed, setting them in rows 3 or 4 feet apart, leaving about 18 inches between the plants in the row. Lay the roots flat in trenches, spreading them well, and using care to have all the crowns placed in the same direction, to keep the roots from running together. Cover lightly at first, gradually filling the trenches as the plants begin to start; the crowns of the roots should be about six inches below the level of the bed. Avoid location near trees, particularly large trees, or their roots will soon take possession of the ground.

Conover's Colossal

A well-known variety of large size; tender and of good quality. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c. Postpaid.

Giant Argentieul A selection from French imported Argentieul stock, regarded as superior to Palmetto in the South. Oz. 10c; ¼ lb. 30c; lb. \$1.00. Postpaid.

Williams' Palmetto

A good yielder of recent introduction and thus far it has proved to be a great success in both the North and South. Oz. 10c; ¼ lb. 25c; lb. 75c. Postpaid.

Asparagus Roots

PALMETTO—Two-year-old roots. 100, \$1.25; 1,000, \$10.00.

CONOVER'S COLOSSAL—Two year-old roots. 100, \$1.25; 1,000, \$10.00.



Palmetto Asparagus



Williams' Extra Early Black Valentine Beans

Bush or Bunch Beans for Spring Planting

Culture No crop responds more readily than Beans to good soil and cultivation. Beans are very sensitive to cold and wet, and should not be planted in this section until early in April, though frequently they are planted in March. The fall crop is planted in August. Plant in rows 2 to 2½ feet apart, covering 1 to 2 inches deep, and allowing 3 to 4 inches apart in the row for green varieties, 4 to 6 inches for wax. For a succession, for private gardens, plant at intervals of 2 weeks, except during June and July, as they generally do not do well during these very hot months. Give frequent shallow cultivation up to the time of blossoming, not, however, when the ground is wet or dew on the vines, as it is liable to cause rust. Two pounds sufficient for 100 feet of drill.

Williams' Black Valentine —A great improvement over the Red Valentine, as the pods are nearly one-third larger; perfectly round, although not quite as early; very prolific. See engraving. Pkt. 20c; lb. 35c; 2 lbs. 65c; postpaid. Peck (15 lbs.) \$2.50; bushel (60 lbs.) \$9.00. Not prepaid.

Giant Stringless Green Pod Valuable for home garden or for market. It is valuable for its extreme earliness and is absolutely stringless, which makes it one of our best extra early Beans, and wonderfully productive; pods of handsome appearance and finest quality. Extra early plantings will produce earliest crops; the later plantings will always produce pods the quickest. Pkt. 10c; lb. 35c; 2 lbs. 65c; postpaid. Peck (15 lbs.) \$2.75; bushel (60 lbs.) \$10.00. Not prepaid.

Bountiful Pods are medium size, green and flat; an excellent snap Bean. Dry Beans are yellowish brown color. Pkt. 10c;

lb. 35c; 2 lbs. 65c; postpaid. Peck (15 lbs.) \$2.50; bushel (60 lbs.) \$9.00. Not prepaid.

Burpee's Stringless Green-Pod

This famous Snap Bean combines unusual earliness, extreme earliness, and wonderful productiveness. It is a Bean of handsome appearance and finest quality. The pods are rich green, almost round, and gracefully formed. They are tender, brittle, of fine texture, and absolutely stringless, even when fully grown. Pkt. 10c; lb. 35c; 2 lbs. 65c; postpaid. Peck (15 lbs.) \$3.00; bushel (60 lbs.) \$10.25. Not prepaid.

Extra Early Refugee A very early green - podded variety, with medium-sized, green, fleshy pods; seed drab, freely spotted with dark purple. The vines are smaller and of more upright growth, and leaves a little longer than the Late Refugee. Pkt. 10c; lb. 30c; 2 lbs. 55c; postpaid. Peck (15 lbs.) \$2.25; bushel (60 lbs.) \$8.50. Not prepaid.

ONE PACKET EACH OF THE FIVE VARIETIES FOR 45c; POSTPAID.

NOTE:—Deduct 5c per lb. from above prices of Beans purchased at our store in 1 and 2 lb. lots.

BEANS—Continued

Valentine, Improved Early Red

One of the best extra early for home use or market. Extra early, and is usually ready for harvesting from thirty-five to forty days after planting. A fine variety for mid-summer sowing to ripen in September. Dry Beans medium size, long, irregular, pink, marbled with red. See engraving. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid. Peck (15-lbs.) \$2.50; bushel (60-lbs.) \$9.00. Not prepaid.

Williams' True Refugee, or 1000 to 1; this

variety is used almost entirely now for Fall planting, as owing to its heavy vine growth, it affords protection against early frosts. As its name indicates, it is a very heavy bearer, and is immune from disease and rust. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid. Peck (15-lbs.) \$2.75; bushel (60-lbs.) \$9.50. Not prepaid.

Dwarf Horticultural. A stringless variety and very desirable for slicing and cooking when young. Pods are medium in length, slightly curved, and when nearly developed are splashed with bright red on a yellow skin. The green-shelled Beans are of fair size, tender and fine flavored. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid.

Lima Beans

POLE VARIETIES

Culture. One pound of seed will plant 75 to 100 hills. Plant in rows 3½ feet apart, 4 feet apart in row, putting about 2 beans on each side of the pole, planting after all danger of frost is over.

Ford's Mammoth-Podded: The result of 20 years careful selection. Vines grow vigorously, commence setting early and bear continuously until frost. Without exception the largest-podded, finest flavored and most productive. Pkt. 10c; lb. 40c; 2-lbs. 75c; postpaid. Peck (14-lbs.) \$3.25; bushel (56-lbs.) \$12.00; not prepaid.

Carpinteria One of the largest and most valuable sorts yet introduced. Vine is very vigorous and produces an abundance of large medium green pods, containing generally 4 large beans of exceptional quality. Pkt. 10c; lb. 40c; 2-lbs. 75c; prepaid. Peck (14-lbs.) \$3.50; bushel (56-lbs.) \$12.50; not prepaid.

Leviathan One of the best improvements in Pole Limas, a week earlier than ordinary kinds. Pkt. 10c; lb. 40c; 3-lbs. 75c; postpaid. Peck (14-lbs.) \$3.50; bushel (56-lbs.) \$12.50; not prepaid.

Carolina, or Sieva (Pole Butter Bean) Vines have many short branches and are sometimes grown without poles. Pods are dark green, curved and flat. Known as the Butter Bean in the South. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid. Peck (14-lbs.) \$3.50; bushel (56-lbs.) \$12.00. Not prepaid.

One packet each of the four varieties for 35c.



Red Valentine Bush Beans

Wax Podded Bush Beans**Williams' Early Harvest Wax**

—An entirely new variety. We have watched it carefully for several years in field tests side by side with all other sorts, and find it earlier, harder and more rust-resistant than any other Wax Bean. The vine is strong and erect and bears in profusion long, well-proportioned pods. We believe it is unquestionably the best Wax Bean on the market. See engraving. Pkt. 10c; lb. 40c; 2-lbs. 75c; postpaid. Peck (15-lbs.) \$2.75; bushel (60-lbs.) \$10.00; not prepaid.

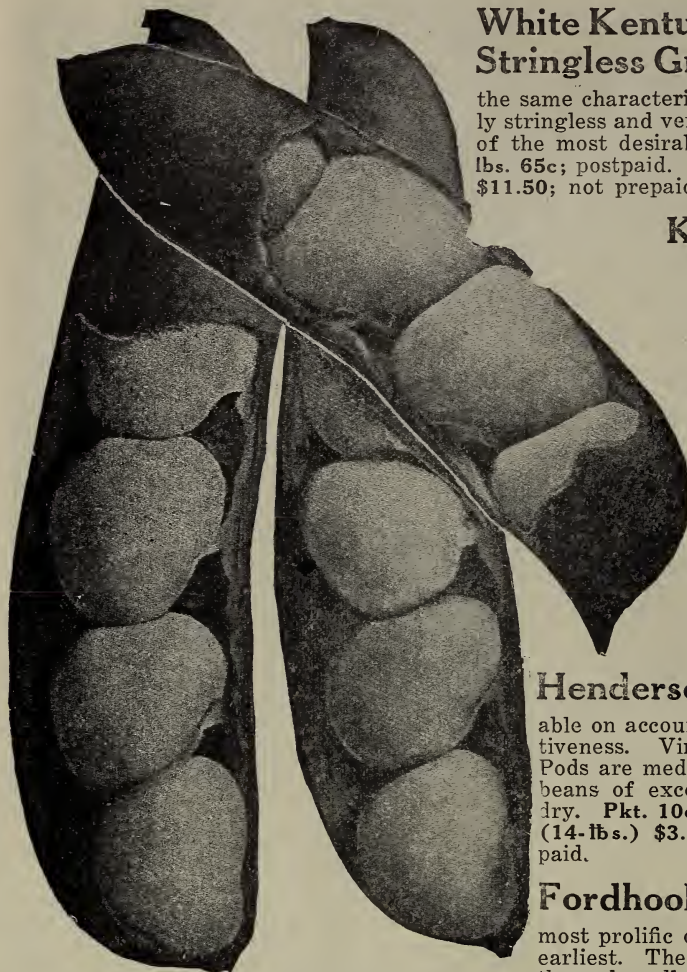
Hudson Wax-pod. Produces large quantities of creamy-white pods which are of good quality. Remarkable for its wonderful growth of plant, even during seasons when many other sorts grow slowly. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid. Peck (15-lbs.) \$2.75; bushel (60-lbs.) \$10.00; not prepaid.

Currie's Rust-proof Wax. An improvement on the old-fashioned Golden Wax. Pods grow long, flat, very tender and of finest quality. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid. Peck (15-lbs.) \$2.75; bushel (60-lbs.) \$10.50; not prepaid.

Williams' New Special Stringless Wax Bean See Specialties, page 10. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid. Peck (15-lbs.) \$3.25; bushel (60-lbs.) \$12.00; not prepaid.

NOTE—Deduct 5c per lb. from above prices of Beans purchased at our store in 1 and 2 lb. lots.

BEANS—Continued



Fordhook Bush Lima Beans

White Kentucky Wonder, or Berger's Stringless Green Pod —An early maturing white-seeded Bean of the same characteristic as the Kentucky Wonder. Entirely stringless and very desirable for snaps. Considered one of the most desirable Pole Beans. Pkt. 10c; lb. 35c; 2 lbs. 65c; postpaid. Peck (15 lbs. \$3.00; bushel (60 lbs.) \$11.50; not prepaid.

Kentucky Wonder Beans

See specialties, page 13. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid. Peck (15-lbs.) \$3.00; bushel (60-lbs.) \$11.50; not prepaid.

Boston Pea, or White Navy

The most popular of all the so-called baking beans. Easily grown and very productive. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid.

Bush Lima Beans

Culture One pound will plant 75 to 100 hills. Sow in rows 2½ feet apart and 6 inches between the rows after all danger of frost is over.

Henderson's Bush Lima (Bush Butter Bean.)

Valuable on account of its extreme earliness and productiveness. Vines continue to set pods until frost. Pods are medium dark green, short and bear 2 to 4 beans of excellent quality, either green-shelled or dry. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid. Peck (14-lbs.) \$3.25; bushel (56-lbs.) \$12.00; not prepaid.

Fordhook Bush Lima

The meatiest, best flavored and most prolific of all Bush Lima Beans, as well as the earliest. The plants are vigorous and erect, bearing the pods well above the ground. The pods, produced in large clusters, are medium green, 4 to 5 inches long, and each containing 4 to 5 large beans. The beans are of exceptional quality, sweet and tender. See engraving. Pkt. 10c; lb. 40c; 2-lbs. 75c; postpaid. Peck (14-lbs.) \$4.00; bushel, (56-lbs.) \$14.00; not prepaid.

Prolific Bush Lima

A much improved type of Henderson's Bush, having more foliage and producing a larger crop of beans of larger size. Vine is full of pods and continues bearing until frost. We recommend this variety very strongly for market gardeners. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid. Peck (14-lbs.) \$3.25; bushel (56-lbs.) \$12.00; not prepaid.

Dreer's Bush Lima

It has a bush habit and grows vigorously eighteen to twenty-four inches high. The Beans are very thick and grow close together, three, four and sometimes five in a pod. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid.

ONE PACKET EACH OF THE FOUR VARIETIES FOR 35c, POSTPAID

Dear Sirs:

The seeds I purchased from you this past season all proved very satisfactory. I will always recommend your firm to anyone wanting quality seeds.

Yours very truly,
J. H. Millner, Norfolk, Va.

Profit Sharing Coupon

Be sure to take advantage of our profit sharing coupon found on the inside front cover of this book. This coupon in value for 25c. and counts as cash on all orders for vegetables or flower seeds amounting to \$1.50 or over. For this coupon and \$1.25 you may select vegetable or flower seeds to value of \$1.50.

NOTE—Deduct 5c per pound from above prices of Beans purchased at our store in 1 and 2-lb. lots.

BEETS

Culture Sow in rows twelve to fifteen inches apart, thin out to four inches in row; plant seed about one-half deep as early as ground can be worked. For late crop plant up to end of July. Beets like a deep, rich, sandy loam. One ounce will sow 50 feet of drill; six to eight pounds to an acre.

Williams' Selected Crosby's Egyptian—

A carefully selected and improved strain of this famous standard main-crisp variety. It is the ideal market gardener's Beet, growing small tops with flattened, globe-shaped, smooth roots, and flesh of bright vermillion red color, sweet, tender and of most excellent quality. (See engraving). Pkt. 10c; oz. 15c; ¼-lb. 30c; lb. \$1.00; postpaid.

Williams' Crimson Beauty Beet See Specialties, page 13. Pkt. 10c; oz. 15c; ¼-lb. 30c; lb. \$1.50; postpaid.

Detroit Dark Red Color of skin very dark red; small tops. Roots mature very evenly in size and shape, also color. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.00; postpaid.

Extra Early Egyptian A small, very early variety, used for first crop and forcing. Roots of good quality and deep red color. Pkt. 10c; oz. 15c; ¼-lb. 30c; lb. \$1.00; postpaid.

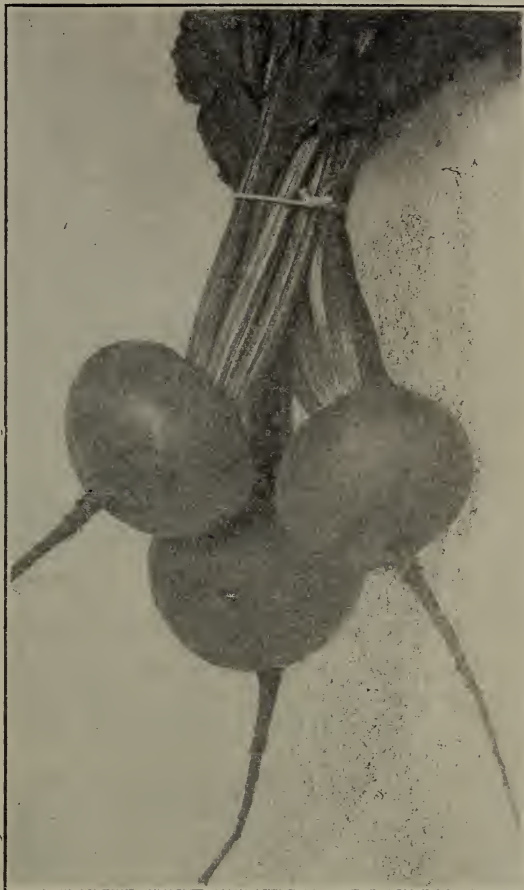
Extra Early Eclipse Our strain of this well known variety is extra fine. It is very early and uniform; rather top-shaped, of a bright red color. Pkt. 5c; oz. 10c; ¼-lb. 20c; lb. 90c; postpaid.

Lentz Similar to Egyptian, but requiring longer to mature. The root is nearly round, with deep red, crisp and tender flesh. A very good variety for summer and autumn. Pkt. 5c; oz. 10c; ¼-lb. 25c; lb. 90c; postpaid.

SUGAR BEETS

Vilmorin's Improved About the richest in sugar contents of any variety. A heavy yielder, giving 10 to 15 tons to the acre. Does best on new land. Oz. 15c; ¼-lb. 25c; lb. 85c; postpaid.

Lane's Imperial Sugar A hardy and productive sort. Heavy yielder, with large percentage of sugar. Oz. 10c; ¼-lb. 25c; lb. 85c; postpaid.



Williams' Selected Crosby's Egyptian Beet.

MANGEL-WURZEL

FOR FEEDING CATTLE AND POULTRY

Golden Tankard Especially good for dairy feeding. It is a bright yellow color and a heavy yielder; very nutritious. Oz. 10c; ¼-lb. 25c; lb. 75c; postpaid.

Improved Mammoth Long Red Largest and most productive variety. Does best in good, deep, loamy soil. Oz. 10c; ¼-lb. 25c; lb. 75c; postpaid.

Swiss Chard Sometimes called Sea Kale Beet. After once having used Swiss Chard for greens we believe your garden will always have at least a row of Swiss Chard; it is delicious. Is cultivated for its leaf stock which is served up like Asparagus or Spinach, by using the outer leaves. Pkt. 5c; oz. 10c; ¼-lb. 35c; lb. \$1.00; postpaid.

Swiss Chard Lucullus A new moss curled sort. Very large leaves and the middle ribs are very broad, forming a good substitute for Asparagus during the Summer months. (See engraving.) Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

BRUSSELS SPROUTS

Culture Sow seed in April or May, transplanting in July to rows 2½ feet apart, allowing 12 to 15 inches between plants. Cultivate as for late cabbage. The leaves should be broken down in the fall to give the little heads room to grow. One ounce seed will give 2,000 to 3,000 plants; ¼ pound is sufficient for acre.

Williams' Half-Dwarf Perfection A splendid variety. Plants grow 18 inches to 3 feet high, are very hardy and give compact round sprouts of large size and good quality. Pkt. 10c; oz. 25c; ¼-lb. 75c; lb. \$2.50; postpaid.



Swiss Chard Lucullus

Plant your Dollars in Williams' Seeds and Watch them Grow.

CABBAGE

Our Strain is Famous

One packet each, any four varieties for 35c.

Culture —Start

your early crop in hotbed middle of February, covering seed about one-half inch; transplant to coldframes soon as plants are large enough, three or four inches each way. Remove glass part of each day to harden plants and plant out in open ground middle of April. For general crop sow in open ground in June in hills 3 feet apart. One ounce will produce 2,000 plants.



Williams' True Early Jersey Wakefield Cabbage

Early Varieties, Pointed Heads

Williams' Charleston Wakefield A favorite with the market gardeners. Resembles the Early Jersey Wakefield in form but it is much larger. Very uniform in shape and desirable for the market gardener. Pkt. 10c; ½ oz. 25c; oz. 40c; ¼-lb. \$1.50 postpaid.

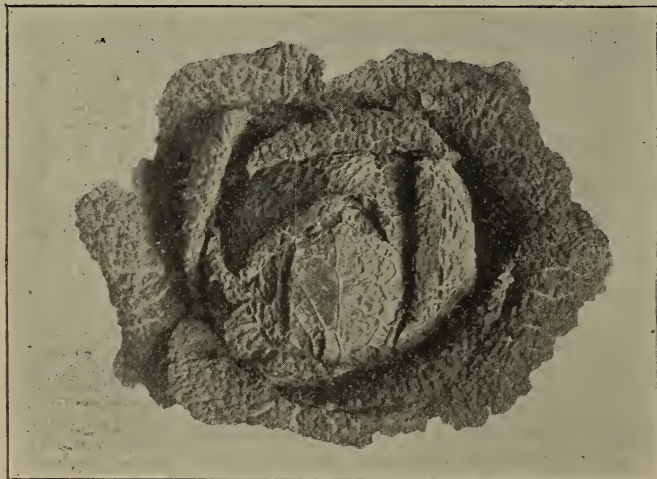
Late Fall and Winter Varieties

Premium Flat Dutch Heads large, solid, broad, and flat on top. Excellent winter variety. Pkt. 10c; oz. 30c; ¼ lb. 85c; lb. \$3.00; postpaid.

Danish Winter Ballhead, or Hollander (Short Stem). A splendid large, hard-heading variety. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.50; postpaid.

Williams' True Early Jersey Wakefield

Long Island Grown Seed. Ready for market about a week earlier than the Charleston Wakefield. The heads are conical in shape, medium-sized, with little outer foliage, and they can be planted very close together. (See engraving.) Pkt. 10c; oz. 30c; ¼ lb. 85c; lb. \$3.00; postpaid.



Williams' Drumhead Savoy Cabbage

Williams American Perfection Drumhead Savoy

The Savoy Cabbage is not grown as much as it should be. The quality is very fine, especially after frost. (See engraving. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.25; postpaid.

Mammoth Red Rock Heads are always deep red color and extremely solid. Average weight about ten pounds each. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.25; postpaid.

Express Extra Early This variety is ready for market or table use in about 75 to 80 days after sowing the seed. It is the earliest variety grown, but does not have as hard a head as the later varieties. Leaves grow compactly together and it may be planted very closely. Pkt. 10c; oz. 30c; ¼ lb. 85c; lb. \$3.00; postpaid.

Second Early Varieties

Williams Early Flat Dutch A very valuable second early and early variety. The plants are short-stemmed and upright, and can be set very close together. The head is solid, nearly round and very uniform in size and shape. Pkt. 10c; oz. 30c; ¼ lb. 85c; lb. \$3.00; postpaid.

All seasons One of the largest mid-season Cabbages and a very hardy variety, somewhat like Flat Dutch in shape. Pkt. 10c; oz. 30c; ¼ lb. 85c; lb. \$3.00; postpaid.

Succession Resembles All Seasons, except that it is earlier. It is so solid that it is used largely for a Fall Cabbage. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.25; postpaid.

Early Summer A variety largely used for second early and an exceptionally good Cabbage. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.25; postpaid.

All-Head One of the largest second early sorts; excellent quality. It is remarkably solid, deep, flat and very uniform. Pkt. 10c; oz. 30c; ¼ lb. 85c; lb. \$3.00; postpaid.

Copenhagen Market The heads are very solid with a small core and of fine quality; the average weight about ten pounds. It matures as early as the Charleston Wakefield and will give a much heavier yield than that popular variety; the plant is short stemmed. Leaves are light green and very tightly folded. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.50; postpaid.



Williams' Selected Early Snowball Cauliflower

Extra-Early Dwarf Erfrut The heads are medium-sized, curd white, very deep and of exceptionally fine quality. Pkt. 15c; oz. \$2.25; ¼ lb. \$7.00; lb. \$25.00; postpaid.

COLLARDS

Cultivate Like Cabbage.

North Carolina Short-Stem, or Cabbage Has a very short stem, with large, spreading leaves; very hardy, and yields good returns. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

True Georgia —A well-known standard sort, and the one most generally used in the South. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 85c; postpaid.

ANY THREE TEN CENT PACKAGES FOR 25 CENTS
POSTPAID

Easy to Grow From Our Seeds **CARROTS** For Table and Stock

Culture Select rich or well manured soil worked deep, because this is a deep rooted crop and the soil should be prepared deep enough to allow the roots to penetrate the soil without difficulty. Sow 1 ounce of seed to 100 feet of row in shallow drills, 16 to 18 inches apart, in early spring when leaves are starting out. Make several sowings about two weeks apart so you will have a succession crop. When plants are well started, thin out to four inches apart in the row.

Williams' Chantenay Or Model. An excellent half long variety and one of the best in quality for the home garden. The roots are 5½ inches long, stump rooted, and a deep orange-red in color. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

Danver's Half-Long The best variety for general purposes and the most largely used, not only for stock raising, but for table use as well. Color is a bright orange-scarlet. It is a very heavy cropper. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

Rubicon Half-Long A half-long stump-rooted variety, smooth and of good color and a quick grower. This variety is used by many gardeners for a sash carrot. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00; postpaid.

Improved Long Orange Old, well-known variety. Roots long and of a deep rich orange color. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.

One Packet each, four above varieties, 35c.

CAULIFLOWER

One ounce of seed produces about 2,000 plants.

Culture Sow the seed in a hot-bed in January or February, and when the plants are large enough, transplant three inches apart in other hot-beds until time to plant out. If hardened off they are seldom injured by planting out as early as the ground can be properly prepared, 2½ feet apart each way.

Williams' Early Snowball Cauliflower Its dwarf habit and short outside leaves allow it being planted very close together. An extremely early variety producing magnificent white heads of finest quality. Excellent for family use. Pkt. 15c; oz. \$2.50; ¼ lb. \$7.50; lb. \$28.00; postpaid.



Williams' Chantenay or Model Carrot.

NOTE—All prices quoted include payment of postage or express.

SWEET, or SUGAR CORN

One pound will plant 200 hills; 10 pounds sufficient for one acre in hills.

To prevent worms in the ear, sprinkle a pinch of red cayenne pepper just as the silk appears and repeat a few days later, or sprinkle lightly dry arsenate of lead. See insecticides. This will effectively keep out worms.

Culture Make hills $2\frac{1}{2}$ to 3 feet apart each way, dropping 5 or 6 grains in each hill, thinning out afterward to 2 or 3 stalks to the hill, according to the richness of your soil and moisture. A continuous supply can be kept up by either planting early, medium and late varieties at one time, or else by making several plantings at intervals of 15 days. Any good garden soil will grow sweet corn and no one who appreciates best quality can afford to be without a small patch of sweet corn.

Williams' Golden Bantam A superb, early sweet corn. For an extra early has a flavor all its own. Two ears to each stalk; ears six inches long and eight rows of grain. Golden Bantam is in a class by itself. (See engraving.) Pkt. 10c; lb. 35c; 2-lbs. 60c; postpaid. Peck (12-lbs.) \$2.40; bushel (48-lbs.) \$8.00; not prepaid.

Crosby's Early A fine, early variety, growing about four feet in height. This makes a better and finer table corn. In time is later, perhaps two weeks later than Red Cob Cory. Resists the corn-ear worm well. Pkt. 10c; lb. 35c; 2-lbs. 60c; postpaid. Peck (12-lbs.) \$2.40; bushel (48-lbs.) \$8.00; not prepaid.

Williams' Country Gentleman The finest quality variety of all the mid-season sorts of sweet corn. Makes 2 to 3 good sized ears to the stalk on rich ground. Grains small, much shriveled, but very deep. Quality unexcelled and no garden should be without a few rows of this best quality of all corn. Notice our illustration of Country Gentleman on front cover. Pkt. 10c; lb. 35c; 2-lbs. 60c; postpaid. Peck (12-lbs.) \$2.25; bushel (48-lbs.) \$7.50; not prepaid.

Stowell's Evergreen The stalks are strong and vigorous and grow seven to eight feet high and bear ears eight inches long, with sixteen or more rows of the finest sugary grains. A very productive sort with deep set white tender kernels. For the home garden, market grower or canning factory, it is always successful. New England grown seed develops a larger percentage of sugar than seed grown in other sections of the United States. Pkt. 10c; lb. 30c; 2-lbs. 55c; postpaid. Peck (12-lbs.) \$2.00; bushel (48-lbs.) \$7.00; not prepaid.

Popcorn—Monarch White Rice White rice has white large pointed grains that pop nicely, and it is the best white variety for the South. Pkt. 10c; lb. 30c; 2-lbs. 50c; postpaid.



Golden Bantam Sweet Corn

Corn for Roasting Ears

Williams' Norfolk Market The most popular kind among our market gardeners. Very hardy, and has ready sale either in green or matured. The ears are about 8 inches long, 14 to 16-rowed, and well filled. The grains are plump and milky



Norfolk Market Roasting Ear Corn.

when green, of exceptional quality. Our stock is absolutely true to type and of first-class quality. (See engraving.) Pkt. 10c; lb. 25c; 2-lbs. 45c; postpaid. Peck (14-lbs.) \$1.25; bushel (56-lbs.) \$4.00; not prepaid.

Extra Early Adams The earliest of all corn and the first to make ears. Plant dwarf and stocky and grains of fair quality. Pkt. 10c; lb. 33c; 2 lbs. 55c; postpaid. Peck (14 lbs.) \$1.75; bushel (56 lbs.) \$6.25; not prepaid.

Large Early Adams Although not a sweet corn, can often be used as such on account of its fine, white kernels, which are quite sweet and tender. Is very hardy and can be planted earlier than the early varieties of sweet corn. Pkt. 10c; lb. 30c; 2 lbs. 55c; postpaid. Peck (14 lbs.) \$1.60; bushel (56 lbs.) \$6.00; not prepaid.

One packet each, any three varieties of corn for 25c, postpaid. Write for Special prices in large quantities.

PROFIT SHARING COUPON

On the inside front cover of this book, purchasers will find our profit sharing coupon. This coupon counts as cash on all orders for vegetable or flower seeds amounting to \$1.50 or over. Be sure to enclose the coupon with your order and deduct the 25c from the total amount of your order.

Note: Deduct 5% from above prices of Sweet Corn purchased at our store in 1 and 2 lb lots.

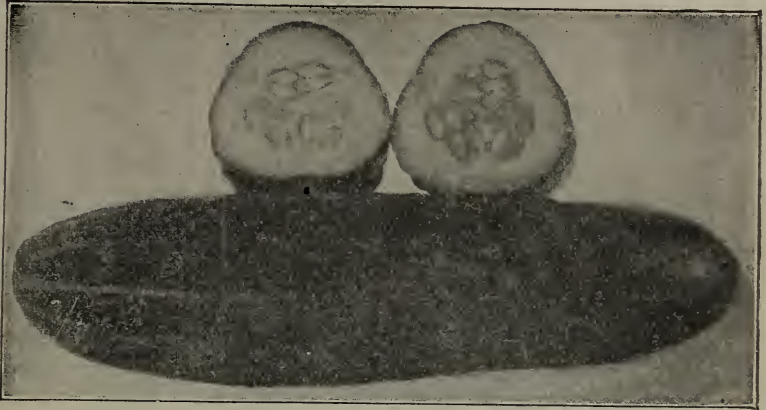
CUCUMBERS

One ounce will plant about 50 hills;
one to two pounds to the acre.

Culture To obtain early Cucumbers plant the seeds about the first of May in frames, without much bottom heat, or small pots may be plunged into the soil in the frames, and a few seeds placed in each. In three or four weeks these may be transplanted into open ground. Hills 3 or 4 feet apart each way. When the plants are well started, thin out, leaving four of the strongest in each hill. Seeds may be planted in hills late in May, making the crop somewhat later. For pickles, plant during the last two weeks in June.

Williams' Peerless—

For description see specialties, page 12. Pkt. 10c; oz. 15c; ¼-lb. 40c; lb. \$1.25; postpaid. Write for quantity prices.



Williams' Success Cucumber

Arlington White Spine (For forcing.) This variety is one of superior quality for forcing. Color is dark green, with very little of the white spine showing; it is extra long. Fruit grows very even in size and regular in form. Equally good for outdoor planting. Pkt. 5c; oz. 10c; ¼-lb. 25c; lb. 75c; postpaid.

Davis' Perfect It is long and very dark green; shows the white spine only at the blossom end; grows remarkably uniform and is a very shy seeder. The average length is from ten to twelve inches. Desirable for outdoor growing. Pkt. 10c; oz. 15c; ¼-lb. 30c; lb. \$1.00; postpaid.

Cool and Crisp A fine garden cucumber, deep green and crisp. Is of the White Spine type, pure white when ripe. Pkt. 10c; oz. 15c; ¼-lb. 40c; lb. \$1.35; postpaid.

Japanese Climbing A good variety for training to a trellis. Form long fruit of rich, dark-green color. The flesh is white, crisp and of good flavor. Pkt. 10c; oz. 15c; ¼-lb. 45c; lb. \$1.50; postpaid.

Long Green The seed cavity is small, and fruits are solid and of delicious quality. Pkt. 10c; oz. 15c; ¼-lb. 30c; lb. \$1.00; postpaid.



GOLDEN SELF-BLANCHING CELERY

Williams' Success In earliness, productiveness and color-retaining qualities we believe it to be unsurpassed by any variety on the market. The fruit is long, cylindrical, dark green, with white spine, and with white, crisp, tender flesh. The uniformity of size and shape and dark green color make it one of the most desirable for shipping, and we highly recommend it. (See engraving.) Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

Jersey Pickling The standard variety for pickling; dark green, productive, tender, crisp and of fine flavor; uniform in size. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

Gherkin, or West India Gherkin An extremely small fruited variety grown exclusively for pickles. It has no value for slicing. Is very prickly, but tender and crisp if picked when young. Seed germinates slowly. Pkt. 10c; oz. 15c; ¼-lb. 40c; lb. \$1.50; postpaid.

ENDIVE

A salad vegetable which is becoming very valuable for winter use. The seed should be sown in June or July in 18-inch rows, and thinned to about six inches apart. When quite well grown the outer leaves should be tied, thus blanching the inner leaves and the heart. It is hardly palatable until after frost, being rather bitter if used in summer.

Green Curled Has very curly leaves, the midrib being white and blanched, and the outer edges very much indented and crested. A very attractive plant and one of the very best varieties. Pkt. 10c; oz. 15c; ¼-lb. 40c; lb. \$1.25; postpaid.

White Curled A light yellowish-green variety; very curly and quite ornamental. A good variety for general use. Pkt. 10c; oz. 15c; ¼-lb. 40c; lb. \$1.25; postpaid.

CELERY

Culture Celery seed is very small and the seed should be sown in partly-shaded beds where the soil has been worked down very fine. The seed should be scattered thinly on the surface then barely covered with finely sifted soil, not covering over a quarter inch. Keep bed well moistened but not soaking wet. Transplant to open ground when about 6 inches high and about 6 to 8 inches apart in the row. As plants grow keep hilling up to bleach.

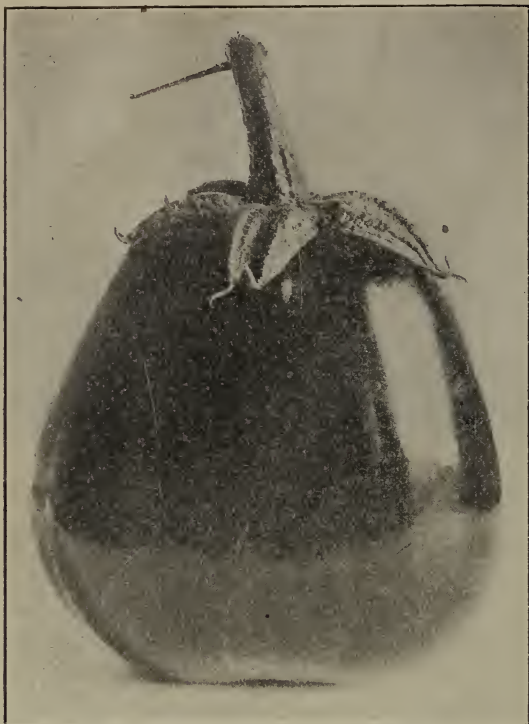
Golden Self-Blanching or Paris Golden— The best market variety especially for early crop. The plant is naturally golden-yellow (both stem and leaves), but needs to be blanched to make it brittle and fit for table use. Forms a rather small bunch. (See engraving.) French Grown. Pkt. 15c; oz. 50c; ¼-lb. \$1.75; lb. \$6.50; postpaid. California Grown, Pkt. 10c; oz. 35c; ¼-lb. \$1.25; lb. \$4.50; postpaid.

White Plume A comparatively easy variety to grow, as it is fairly hardy, and being naturally white, is easy to blanch. The leaves are also white, tinted with green tips. Forms a medium sized bunch and is fairly tall; early. Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00; postpaid.

Giant Pascal Rather tall, with stems near-round, and when blanched is white, brittle and especially good flavor. Pkt. 10c; oz. 25c; ¼-lb. 75c; lb. \$2.50; postpaid.

Winter Queen Pkt. 10c; oz. 25c; ¼-lb. 75c; lb. \$2.50; postpaid. Celery Seed for Flavoring (Soup Celery), oz. 5c; ¼-lb. 20c; ½-lb. 35c; lb. 65c; postpaid.

Special Offer Your choice of any three 10c Packages for 25c; postpaid.



Williams' Improved Black Beauty Egg Plant

EGG PLANT

Culture Sow early in March in hotbed, transplant to four or six inches apart. Plant out in open ground about May 20.

Black Beauty Rich purple black in color and a remarkable market variety. Is early and makes also a fine sort for the home garden. (See engraving.) Pkt. 10c; oz. 50c; ¼-lb. \$1.50; lb. \$5.50; postpaid.

New York Improved Large Purple The principle market variety; plants are large and spreading; fruit large and of deep rich purple. Pkt. 10c; oz. 40c; ¼-lb. \$1.40; lb. \$5.00; postpaid.

Florida High Bush This is an excellent variety for Florida planting. Pkt. 10c; oz. 35c; ¼-lb. \$1.25; lb. \$4.50; postpaid.

KALE OR BORECOLE

Culture Scotch Kale should be sown from the latter part of July to last of August; Siberian Kale from middle of August to last of September. Sow in rows from 2 to 3 feet apart, thinning later to 6 or 8 inches in the row. Cultivate like cabbage. Spring or Smooth Kale can be sown either in fall or spring, and either broadcast or in drills. One ounce of seed is sufficient for 75 to 100 feet of drill; 3 to 4 pounds to the acre.

Dwarf Curled Scotch Extra fine curled, bright green leaves, tender and fine flavor. Is very hardy and, like Savoy, is improved by moderate frost. (See engraving.) Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

Siberian or German Greens (Sprouts). A very hardy variety. Popular with the market gardeners, very fine curled. Should be sown in September in rows one foot apart for Spring greens. Pkt. 5c; oz. 10c; ¼-lb. 25c; lb. 75c; postpaid.

Spring, or Smooth Kale A hardy, quick-growing, smooth-leaved variety. The best for spring sowing, but also largely sown in the fall, as it makes greens earlier than the winter varieties. It has no value as a shipping sort, but there is always a good local market. Pkt. 5c; oz. 10c; ¼-lb. 15c; lb. 35c; postpaid.

Hanover Salad A rapid-growing "green" that can be sown in the spring or fall. Being so easily grown, it should be in every home garden. Oz. 10c; ¼-lb. 15c; lb. 35c; postpaid.

WRITE FOR SPECIAL PRICES ON LARGER QUANTITIES

Corn Salad, or Fetticus

One ounce will sow 20 feet square

Culture Is generally sown in August or September. Sow quite thick about one-quarter inch deep, thin out and keep clear of weeds. Protect in winter by thin covering of straw or meadow hay. Ready early in Spring; use same as Lettuce. For Summer use sow early in Spring.

Corn Salad (Lamb's Lettuce). The well-known common variety. Pkt. 10c; oz. 15c; ¼-lb. 35c; postpaid.

Cress, Extra Curled or Improved Pepper

Grass This tastes the same as Water Cress and is easily grown in spring, summer and fall. Make frequent plantings as the plant soon runs to seed. Pkt. 5c; oz. 10c; ¼-lb. 25c; postpaid.

Water Cress Hardy plant grown easily in shallow fresh water. Start seed in very moist earth and transplant to water. Grown for the refreshing leaves which make fine salads and garnishes. Pkt. 10c; oz. 30c; ¼-lb. \$1.00; prepaid.



A Field of Williams' Dwarf Green Curled Scotch Kale.

Lettuce Seed for Home and Market Crop

Introducing BONANZA The Grand New Variety

SEE PHOTO FRONT COVER

Culture Lettuce is easy to grow, but requires rich, moist soil, clean and thorough cultivation and plenty of water to give it that quick-growth on which depends its tenderness and flavor. They may be had at all seasons of the year. The earliest sowings should be made in a hot-bed or in boxes indoors, hardened off and set out 8 to 12 inches apart in 18-inch rows. For a succession sow every three weeks. Sowings may be made in open ground early in the spring and the plants thinned out. For fall use, sow in July and August. Fall sowings of hardy kinds should be made in September; protect with straw or litter and they will head up in the spring, or transplant 9 inches apart under glass or canvas to head up in the winter. One ounce will produce about 1,500 plants; 2 pounds will make plants enough for an acre.

Williams' Bonanza As its name implies this grand new variety will prove a veritable gold mine. It is a decided improvement over the old time Big Boston. The heads are immense solid balls of white and make a charming appearance. For home or market this variety is unsurpassed by none. This is the first year this wonderful variety has been offered for sale and we strongly recommend every planter to try some. See photo, front cover. Pkt. 15c; oz. 25c; ¼-lb. 60c; lb. \$2.00; postpaid.

May King This resembles Big Boston in growth, and is a good variety for outdoor crop. It is early and forms medium-sized, compact heads, the leaves being tinged with brown. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

California Cream Butter Heads are round, solid and good sized. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

Salamander One of the most popular varieties for withstanding heat. Medium size, very light green, and forms a hard, buttery head of fine quality. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

Grand Rapids An upright grower, which does not form a head, but produces large, crinkly leaves of high quality. Used more than any other variety for greenhouse forcing. Pkt. 5c; oz. 15c; ¼-lb. 35c; lb. \$1.00; postpaid.

Simpson, Early Curled One of our earliest curled varieties. Loose heads and very tender. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

Mignonette A very small-headed Lettuce, perfectly hardy and solid. One of the finest for the home garden. Pkt. 5c; oz. 20c; ¼-lb. 60c; lb. \$2.00; postpaid.



LETTUCE BLACK SEEDED SIMPSON

Big Boston A popular market variety, used largely in the South to grow winter lettuce for Northern markets. A light-green cabbage variety, slightly tinged with brown in the head. We recommend our BONANZA LETTUCE which is a decided improvement over this variety. (See photo, front cover.) Pkt. 10c; oz. 20c; ¼-lb. 40c; lb. \$1.50; postpaid.

New York or Wonderful One of the large varieties; very crisp and tender. Pkt. 10c; oz. 20c; ¼-lb. 60c; lb. \$2.25; postpaid.

Iceberg A very attractive looking Lettuce and of high quality. It is crisp, tender, and a sure header. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

Black Seeded Simpson A bunching variety, forming no definite head. It has a large mass of fine brittle leaves of a light-green attractive color. (See engraving.) Pkt. 5c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

ROMAINE, OR COS LETTUCE

Paris White Cos A splendid sort for summer use, leaves quite erect. Pkt. 5c; oz. 15c; ¼-lb. 35c; lb. \$1.00; postpaid.

Trianon self-bleaching Cos Lettuce of excellent flavor. Very crisp. Pkt. 10c; oz. 15c; ¼-lb. 40c; lb. \$1.25; postpaid.

Special Offer One package each, three best varieties, including our new Bonanza Lettuce for 25c; postpaid.

KOHL RABI

The secret of good Kohl Rabi is to keep the plants growing quickly and to use the roots when 3 to 4 inches in diameter and before fully grown. The bulb grows above ground and leaves come from its sides. Kohl Rabi has a flavor as much like a turnip as like cabbage. The seed should be planted in the open garden in 18-inch rows and the young plants thinned to four or six inches. It does not transplant well, unless when very small.

Early White Vienna The most desirable variety for general use. Is very early and has small tops. Color, light silvery green. Pkt. 10c; oz. 20c; ¼-lb. 60c; lb. \$2.25; postpaid.

Early Purple Vienna Has a bright purple bulb. The leaf and stems are green and tinged with purple. Pkt. 10c; oz. 20c; ¼-lb. 60c; lb. \$2.25; postpaid.

PROFIT SHARING COUPON.

On the inside front cover of this book, purchasers will find our profit sharing coupon. This coupon counts as cash on all orders for vegetable or flower seed amounting to \$1.50 or over. Be sure to enclose the coupon with your order and deduct the 25c from the total amount of your order.



KOHL RABI WHITE VIENNA

Ask for a copy of our leaflet "Vegetable Garden" Sent free with your order. Dont fail to ask for it.

MUSKMELON OR CANTALOUPE

Plant two or three pounds for one acre. One ounce for 50 hills.

Culture Do not plant until all danger from frost is over, in hills six feet apart each way. Put a dozen seeds in a hill, and when danger from bugs is over thin to three or four plants. Pinch main stems, which will strengthen the vine, and the fruit will core earlier. Use Slug Shot or Bug Death to kill bugs.

Williams' New Knight Another development from the Rocky Ford, earlier, larger and much more productive. Very sweet and with delicious aroma. The skin is of light golden hue, and the flesh is bright green, ripening close to the rind. This variety, even when all others fail, almost invariably produces a fine sweet fruit. Pkt. 10c; oz. 15c; $\frac{1}{4}$ -lb. 35c; lb. \$1.25; postpaid.

Williams' New Rival See Specialties, page 11. Pkt. 10c; oz. 20c; $\frac{1}{4}$ -lb. 60c; lb. \$2.00; postpaid.

Rocky Ford The most popular market variety. An improvement on the netted Gem varieties; more oblong, skin is light green and netted. Flesh is green, excellent flavor; unsurpassed for shipping. Pkt. 10c; oz. 15c; $\frac{1}{4}$ -lb. 35c; lb. \$1.25; postpaid.

Emerald Gem It is of a rich, delicious flavor and fine quality. Very early and prolific; skin is striped deep emerald green with a few light colored stripes. Flesh is very thick and salmon color. Pkt. 10c; oz. 15c; $\frac{1}{4}$ -lb. 30c; lb. \$1.00; postpaid.

Banana So called on account of its shape; salmon colored flesh. Pkt. 10c; oz. 15c; $\frac{1}{4}$ -lb. 35c; lb. \$1.25; postpaid.

Jenny Lind Green flesh, extra early and one of the sweetest in cultivation. Medium size. Pkt. 5c; oz. 15c; $\frac{1}{4}$ -lb. 30c; lb. \$1.00; postpaid.

Bottomly This melon is becoming more popular every year among the market gardeners owing to being blight proof and very productive. It has all the good qualities of the Rocky Ford, which makes it desirable for shipping or home market. Pkt. 10c; oz. 20c; $\frac{1}{4}$ -lb. 60c; lb. \$2.00; postpaid.



Williams' New Rival Muskmelon.

Honey Dew The rind is a dull white when ripe. Part of the melon shows slight checks in the rind like a tendency to net. This appears when the melon is ready to pick. This melon is 6-7 inches through and about 8 inches long. Pkt. 10c; oz. 20c; $\frac{1}{4}$ -lb. 60c; lb. \$2.25; postpaid.

Osage, or Miller's Cream Skin dark green color, slightly netted. Flesh salmon color, sweet and delicious flavor. A remarkable keeper. One of the best salmon fleshed Melons for shipping. Pkt. 10c; oz. 15c; $\frac{1}{4}$ -lb. 30c; lb. \$1.00; postpaid.

WATERMELON

Culture Treat the same as muskmelon, except that they should be planted 8 to 10 feet apart, according to variety

Williams' Improved Tom Watson See Specialties, page 13. Pkt. 10c; oz. 15c; $\frac{1}{4}$ -lb. 30c; lb. \$1.00; postpaid.

Georgia Rattlesnake One of the oldest and most popular sorts. A large, oblong variety with decided stripes of light and deep green. Rind is tough, but flesh is of good quality and bright red; a good shipping and market melon. Pkt. 5c; oz. 10c; $\frac{1}{4}$ -lb. 25c; lb. 75c; postpaid.

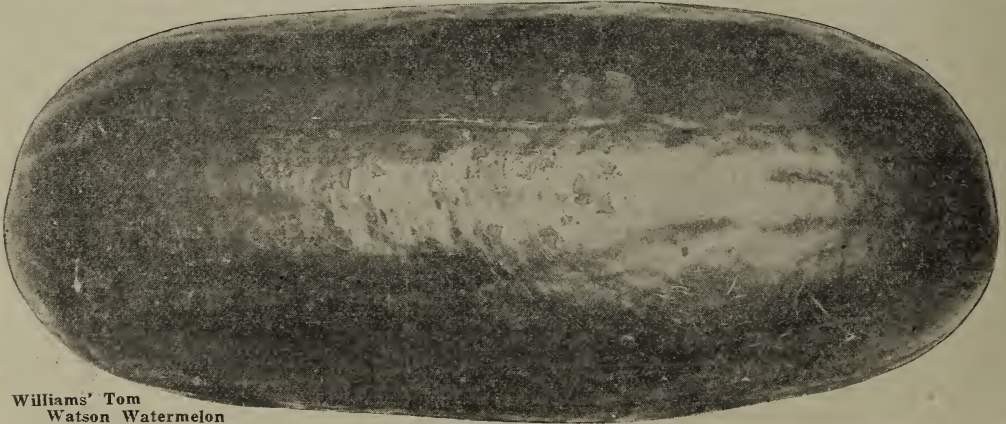
Fordhook Early Fruit almost globular; color deep mottled, with occasional faint stripes of lighter green; flesh bright red and crisp; rind tough, which makes it a good shipping variety. Early. Pkt. 10c; oz. 15c; $\frac{1}{4}$ -lb. 30c; lb. \$1.00; postpaid.

New Watermelon "Irish Grey" It's sweet, the flesh is red, crisp and free from stringiness and in color of rind a mottled greenish grey, entirely distinct. Rind is thin but very tough. Vines very vigorous, healthy and hold up and produce fine melons late into summer when other sorts die out. Plant Irish Grey for home or market use and you will be pleased. Pkt. 10c; oz. 15c; $\frac{1}{4}$ -lb. 30c; lb. \$1.00; postpaid.

Kleckley Sweets The sweetest of all the Watermelons. Fine-flavored and grained, tender meat. Fruits are large size; rind very thin and green, very brittle; flesh scarlet and firm; and a variety everyone should grow. Pkt. 10c; oz. 15c; $\frac{1}{4}$ -lb. 30c; lb. \$1.00; postpaid.

Halbert Honey Is especially sweet in flavor, crisp and brittle, and well ripened to a very thin rind. Oblong and extra fine quality. Pkt. 5c; oz. 10c; $\frac{1}{4}$ -lb. 20c; lb. 75c; postpaid.

Florida Favorite A large, oblong, dark green skin, striped with a deeper green. Flesh deep red, of excellent flavor. Pkt. 5c; oz. 10c; $\frac{1}{4}$ -lb. 25c; lb. 75c; postpaid.

Williams' Tom
Watson Watermelon

Ask for a free copy of our leaflet on melons to be included with your order.

One ounce will sow
about 100 feet of
drill.

LEEK

Leaflet "Vegetable
Gardens" FREE
With Your Order.

Culture For best results sow as early as the ground can be worked in the Spring, in rows one foot apart. Cover seed about one inch deep; transplant when plants are about six inches high in rows six inches apart; plant as deep as possible that the neck being covered may be blanched.

Monstrous Carentan Is of fine quality and much larger than any other variety. (See engraving.) Pkt. 10c; oz. 20c; ¼-lb. 55c; lb. \$2.00; postpaid.

American Flag Strong, vigorous growth, excellent for the market gardener. Pkt. 5c; oz. 20c; ¼-lb. 55c; lb. \$2.00; postpaid.

Mustard for Spring Salad

Culture Sow in any good garden soil thickly in drills 14 to 16 inches apart. Give clean cultrure, keeping free from grass and weeds. Leaves are large enough to use as a salad in from four to six weeks from sowing, and can be cut all through the winter. Sow from January to April. Use one ounce of seed to 200 feet of row.

Giant Southern Curled Mustard No spring garden is complete without a patch of mustard for early salad. Our Giant Southern Curled is the very best of the finely curled leaf strains. It is slightly pungent, crisp and tender and can be eaten like lettuce or boiled for "greens." Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. 75c; postpaid.

Chinese Mustard An entirely distinct, yet thoroughly good variety of mustard. It is of much larger growth than the Curled, about the same quality for salads or boiling and remains in condition for use a long time. The quick, almost rank growth of the Chinese, insures tenderness, mildness and freedom from bitter flavor. Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. 75c; postpaid.

PARSNIPS

Culture Sow seed thickly in rows about 16 inches apart any time from January to April for spring and summer crop in this latitude; in Florida and Gulf Coast section sow September to December for winter and spring crop. Plant one ounce of seed to 100 feet of row; five pounds per acre.

Improved Hollow Crown The best all-round variety of parsnips; the leaves start from a depression in the crown of the root, thus giving it the name "Hollow Crown." Rich, very sweet flavor, immensely productive, ready for use in 80 to 85 days. Pkt. 5c; oz. 15c; ¼-lb. 30c; lb. 85c; postpaid.

PARSLEY

Culture Parsley succeeds best on rich, mellow soil. The seed are very slow in germination, and should be soaked in warm water for a while before planting. Sow either in spring or fall, in rows about 10 inches apart, thinning to 6 or 8 inches apart in the row. One ounce will sow 100 feet of drill.

Williams' Triple Curled The finest Parsley for garnishing. Leaves deep green, exquisitely curled, and highly ornamental. (See engraving.) Pkt. 10c; oz. 15c; ¼-lb. 50c; lb. \$1.00; postpaid.

Double Curled Very robust, free growth. Leaves are large, very dark green and beautifully curled; exceedingly large yielder. Stands heat and cold better than most varieties. Pkt. 5c; oz. 15c; ¼-lb. 25c; lb. 75c; postpaid.



Williams' Triple Curled Parsley



LEEK MONSTROUS CARENTAN

Champion Moss Curled Leaves are of exceedingly dark green color, very finely curled, making it most attractive for garnishing. Pkt. 5c; oz. 15c; ¼-lb. 25c; lb. 75c; postpaid.

Plain Leaf Leaves are longer and darker green than the curled varieties; very hardy. Excellent for seasoning. Pkt. 5c; oz. 15c; ¼-lb. 25c; postpaid.

MUSHROOM SPAWN

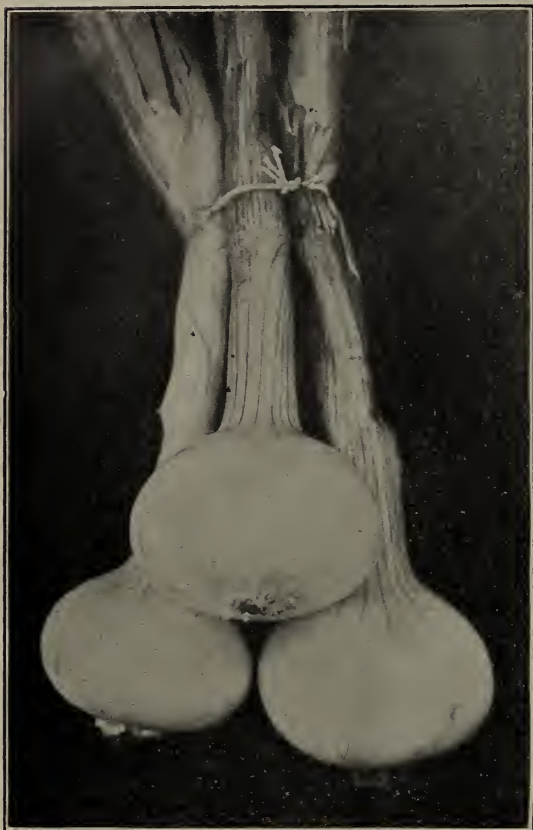
Ten bricks will spawn ten feet square.

Pure Cutlure Spawn An American make of spawn, which produces Mushrooms of excellent quality and large size, this being due to the fact that the spawn is obtained by a process of inoculation, only large and vigorous specimens of Mushrooms being used for the purpose. Direct Bricks, inoculated direct from pure cultures. Per brick, 30c (by mail, 40c); by express, 5 bricks, \$1.25; 10 bricks, \$2.25.

Mushroom Circular Free on Application

Tells how to prepare the Mushroom bed and take care of crop. If interested in growing Mushrooms write for a free copy.

Williams' Onion Seed is Famous in the South



Williams' Silver Skin or White Portugal Onion

Okra, or Gumbo

Culture The young seed pods of this plant are largely used for soups, stews and catsup. The seed can be sown soon as all danger of frost is past and the ground is warm. Sow in rows about two and a half feet apart and when plants are well up thin to eight inches apart. One ounce will sow a 40-foot row; 15-lbs. to acre. Will mature in about 60 days from sowing.

Perkins Mammoth The pods shoot out from the stalk within three inches from the ground and the entire plant seems to be covered with pods of intense green color and unusual length and does not get hard quickly. Pkt. 5c; oz. 10c; ¼-lb. 20c; lb. 65c; postpaid.

White Velvet Smooth and of a velvety appearance. Tender and of good flavor. Pkt. 5c; oz. 10c; ¼-lb. 20c; lb. 65c; postpaid.

PROFIT SHARING COUPON.

On the inside front cover of this book, purchasers will find our profit sharing coupon. This coupon counts as cash on all orders for vegetable or flower seeds amounting to \$1.50 or over. Be sure to enclose the coupon with your order and deduct the 25c from the total amount of your order.

Send in a photo of your garden. We like to know when our customers make a success in growing either vegetables, field crops or flowers. We are interested in your garden.

Culture The Onion, unlike most vegetables, succeeds well when cultivated on the same ground for successive years. Sow thinly in drills about ¼-inch deep and one foot apart; cover with fine soil and press down with the back of a spade or a light roller. When the young plants are strong enough, thin gradually so that they stand 3 or 4 inches apart. Keep the surface of the ground open and free from weeds by frequent hoeing, taking care not to stir the soil too deeply or to collect it about the growing bulbs. An ounce will sow 100 feet of drill. Four to five pounds to the acre.

Williams' White Portugal or Silver Skin—

Bulb flattened, thick through, skin clear white, flesh mild and of fine flavor. It is grown extensively for sets and pickling onions and is the best white sort for this purpose. (See engraving.) Pkt. 10c; oz. 25c; ¼-lb. 75c; lb. \$2.75; postpaid.

Yellow Globe Danvers Very productive and a good standard variety for both home use and market. A fairly good keeper, solid, rather mild. Skin of pale yellow color. Pkt. 10c; oz. 25c; ¼-lb. 75c; lb. \$2.50; postpaid.

Southport White Globe A pure white globe-shaped variety. Forms handsome hard onions with wax-like, pearl-white flesh. Is used a great deal for green onions, owing to the clear white stem. Pkt. 10c; oz. 35c; ¼-lb. \$1.15; lb. \$4.00; postpaid.

Southport Yellow Globe A fine, orange-yellow, globe-shaped variety. Is a heavy cropper and forms a long-keeping hard bulb. Pkt. 10c; oz. 35c; ¼-lb. \$1.00; lb. \$3.50; postpaid.

Prizetaker The true Prizetaker Onion is globe-shaped, has pale yellow skin and white flesh, which is very mild and of delicate flavor. No sets are required, as the large Onions are grown the first year from seed sown during the spring. Pkt. 10c; oz. 25c; ¼-lb. 75c; lb. \$2.50; postpaid.

Extra Early White Pearl Large, pearly white, tender, mild, excellent flavor, grows quickly; white skin. The best variety for fall setting to make early spring onions. Pkt. 10c; oz. 25c; ¼-lb. 85c; lb. \$3.00; postpaid.

Wethersfield (Large Red) Bulb large, flattened, yet purplish red. Good keeper. Pkt. 10c; oz. 25c; ¼-lb. 75c; lb. \$2.50; postpaid.

Crystal White Wax A pure white variety of the Bermuda type. The beautiful clear white onion seen in our markets in crates early in spring is this variety. Sweet. Pkt. 15c; oz. 50c; ¼-lb. \$1.85; lb. \$7.00 postpaid.

White or Yellow Bermuda It is an extra-early, heavy-cropping, mild onion. Suitable for planting throughout the South and Southwest Texas during early spring. While called White Bermuda, it is really a light-yellow color. Pkt. 10c; oz. 35c; ¼-lb. \$1.15; lb. \$4.50; postpaid.

Bermuda (Red) A very early, flat variety. Is of mild flavor and a good shipper, but not a winter keeping variety. The color is a pale red. The best stock is imported from Teneriffe, Canary Islands, and we offer only this stock. Pkt. 10c; oz. 35c; ¼-lb. 1.15; lb. \$4.50; postpaid.

Red Creole Onion Principally grown in Florida. Pkt. 15c; oz. 25c; ¼-lb. \$1.25; postpaid.

Silver-Skin Sets Sets from White Portugal or Silver Skin seed. Make large silvery white onions of fine quality when mature. Plant a few for early green onions. Pt. 15c; qt. 30c; 2-qts. 55c.

Yellow Danvers Sets Make medium sized, globe-shaped yellow onions of the sort described under "Yellow Globe Danvers." The standard yellow variety. Pt. 15c; qt. 30c; 2-qts. 55c.

Yellow Potato A mild yellow sort, growing in clumps. Pt. 15c; qt. 30c; 2-qts. 55c.

Special Offer One Packet each, any three varieties of Onion Seeds, 25c Postpaid.

Williams' Garden Peas

TENDER PEAS MUST BE
HOME GROWN. THEY
CAN'T BE BOUGHT.

Deduct 5c per pound on Peas Purchased at Our Store in one and two pound lots

Culture Peas do best in light, rich, loamy soil that has been liberally manured the previous season. Plant the smooth varieties as early as the ground can be worked. The wrinkled peas are not as hardy as the smooth kinds, and should be planted later; they are, however, sweeter and better flavored. For a succession, plant every two weeks—as late as August for a late crop. Plant in double rows 6 to 8 inches apart, 2 to 3 inches deep, and stake with brush. They should be kept clean and the earth worked toward them two or three times during growth. 2-lbs. will plant 100 feet of drill; about 100-lbs. per acre.

Williams' Extra Early Alaska A splendid shipper and one of the smooth varieties as early as the ground can be worked, extra early. Foliage and pods light green; pods $2\frac{1}{2}$ inches long, round, straight and square ended, containing six peas. Seeds are of bluish shade, well rounded out and the fresh peas are about equal to the wrinkled peas in quality. There are a great many peas being sold under the name of "Alaska" that are from run-out stock or else not kept true to name. We have a specially wonderful stock of Alaska peas this year and know that for marketing or home use you will find them absolutely satisfactory. Pkt. 10c; lb. 25c; 2-lbs. 45c; postpaid; peck (15-lbs.) \$2.25; bushel (60-lbs.) \$8.50; not prepaid.

Williams' Ameer A smooth-seeded variety within three days as early as Alaska; just as hardy, but about twice the size. A valuable variety for the South. Pkt. 10c; lb. 40c; 2-lbs. 75c; postpaid; peck (15-lbs.) \$2.75; bushel (60-lbs.) \$10.75; not prepaid.

Pedigree Extra Early A smooth-seeded variety that cannot be too highly recommended. In a planting where ten varieties are wanted to produce a continuous succession of Peas from June 1, this variety heads the list, and will give you Peas 4 or 5 days earlier. A splendid cropper; Peas very tender, of good flavor, and carried in long, well-filled pods. Height $2\frac{1}{2}$ ft. Pkt. 10c; lb. 30c; 2-lbs. 55c; postpaid; peck (15-lbs.) \$2.50; bushel (60-lbs.) \$9.50; not prepaid.

First and Best An old and well known variety of first early; a good yielder. Pkt. 10c; lb. 30c; 2-lbs. 55c; postpaid; peck (15-lbs.) \$2.50; bushel (60-lbs.) \$9.50; not prepaid.

Prolific Early Market Large, handsome pods, similar in shape to First and Best, but larger. Very prolific. Pods $2\frac{1}{2}$ inches long, blunt end, light green. Height 30 inches. Very largely used for fall planting. Pkt. 10c; lb. 35c; 2-lbs. 60c; postpaid; peck (15-lbs.) \$2.50; bushel (60-lbs.) \$9.50; not prepaid.



Extra Early Alaska Peas

Little Marvel Particularly well suited to home gardens. A first early; 15 inches high, heavily set with large dark pods, usually in pairs, that are closely crowded with 6 to 8 green peas of extra-fine flavor. Pkt. 10c; lb. 45c; 2-lbs. 80c; postpaid; peck, \$3.50; bushel, \$13.00; not prepaid.



Williams' Ameer Peas

Inoculate Your Peas with Mulford Cultures. Small size, 35c; one-fourth acre garden size, 75c.

PEAS—Continued

Special Offer One Packet each, your choice, any three varieties, 25c, postpaid

Gradus or **Prosperity**. The most popular of the long, large-podded, wrinkled Peas. Of the finest quality, and matures pods only a few days later than the extra early smooth Peas. Vines grow about 2½ feet high; very large. Are of superior quality in size and flavor. Always salable as a market variety. (See engraving.) Pkt. 10c; lb. 40c; 2-lbs. 75c; postpaid; Peck (14-lbs.) \$3.50; bushel (56-lbs.) \$13.00; not prepaid.

Thomas Laxton (See Specialties) page 10. Pkt. 10c; lb. 40c; 2-lbs. 75c; postpaid. Peck (14-lbs.) \$3.25; bushel (56-lbs.) \$12.50; not prepaid.

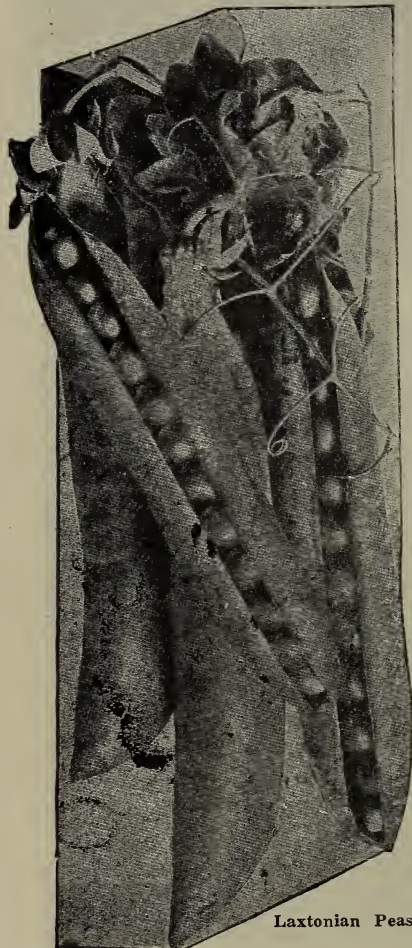
Laxtonian One of the earliest dwarf Peas. Vines are vigorous, growing about eighteen inches high, well covered with large, even-sized pods averaging 8 to 9 to a vine and 9 to 10 peas in a pod. Quality of the best. (See engraving.) Pkt. 10c; lb. 45c; 2-lbs. 80c; postpaid; peck (14-lbs.) \$3.50; bushel (56-lbs.) \$13.50; not prepaid.

Premium Gem Improved Strain of McLean's Little Gem. Of dwarf growth, maturing early. The vines grow from twelve to fifteen inches in height, and are very productive; pods two and a half to three inches long, round, and well filled with peas of delicious flavor. Pkt. 10c; lb. 40c; 2-lbs. 75c; postpaid; peck (14-lbs.) \$3.50; bushel (56-lbs.) \$13.00; not prepaid.

Telephone One of the most productive of the large-podded wrinkled sorts. Of excellent sugary flavor; pods large, generally 5 to 5½ inches long, broad, straight and pointed, and well filled with large peas of delicious flavor. Pods usually contain 6 or 7 peas. Rather late in maturing, but is one of the best for main crop. Height 4 feet. Pkt. 10c; lb. 40c; 2-lbs. 75c; prepaid; peck (14-lbs.) \$3.25; bushel (56-lbs.) \$12.50; not prepaid.

Stratagem Pods of large size, well filled with large, dark-green peas of rich, sweet flavor. Pkt. 10c; lb. 45c; 2-lbs. 80c; postpaid.

Market Surprise The earliest variety grown bearing large well filled pods. Profitable for market. Pkt. 10c; lb. 40c; 2-lbs. 75c; postpaid. Peck (15-lbs.) \$3.50; bushel (60-lbs.) \$13.00; not prepaid.



Laxtonian Peas

Pioneer (Sutton's Dwarf)

This is a new variety of dwarf habit, vines 15 to 18 inches, a strong, vigorous grower, maturing same time as Gradus. The pods are 4½ inches long, well filled with 8 to 10 deep green peas. Pkt. 10c; lb. 45c; 2-lbs. 80c; postpaid; peck (14-lbs.) \$3.50; bushel (56-lbs.) \$13.50.

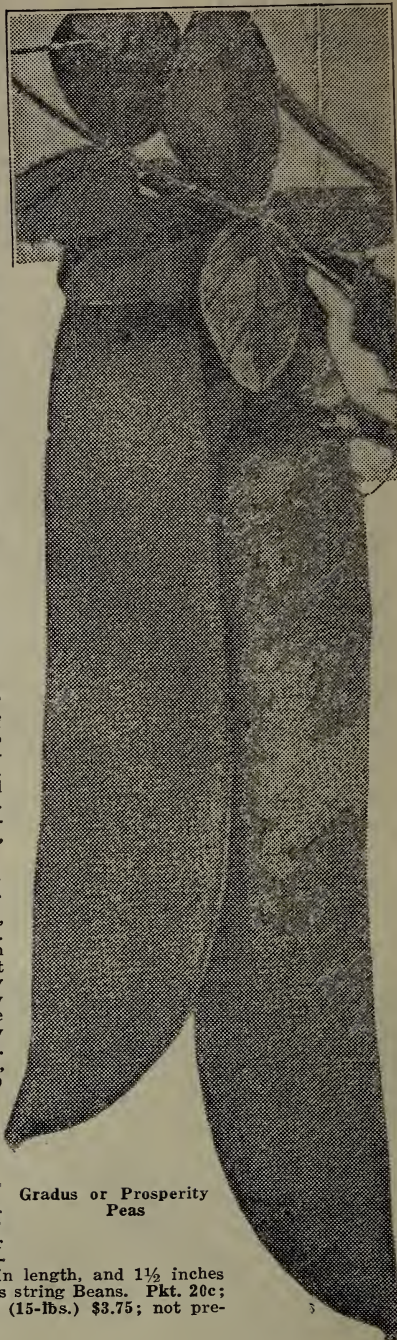
Williams' Improved

Sugar Marrow Early, hardy, productive. Having very little in common with the old Marrowfat varieties, except the name, this popular variety should be more largely used. Nearly equal in flavor to the best of the wrinkled varieties, and is especially good for canning. Pkt. 10c; lb. 35c; 2-lbs. 65c; postpaid; peck, (15-lbs.) \$2.25; bushel, (60-lbs.) \$8.50.

EDIBLE-PODDED PEAS

Mammoth Melting

Sugar. Vines grow about four feet high; very productive. Pods average 5 to 6 inches in length, and 1½ inches in width; broken and cooked same as string Beans. Pkt. 20c; lb. 35c; 2-lbs. 60c; postpaid; peck (15-lbs.) \$3.75; not prepaid.



Gradus or Prosperity Peas

PROFIT SHARING COUPON

On the inside front cover of this book, purchasers will find our profit sharing coupon. This coupon counts as cash on all orders for vegetable or flower seed amounting to \$1.50 or over. Be sure to enclose the coupon with your order and deduct the 25c from the total amount of your order.

Deduct 5% per pound from above prices of peas purchased at our store in 1 and 2 pound lots.



PEPPER

One ounce will produce about 200 plants

Culture Sow in hotbed in March or in the open ground in April; transplant in rows 20 inches apart each way. The seed may be sown in the open ground after all danger of frost is passed.

Williams' Ruby Giant A variety of Mango Pepper, which is of a desirable size and shape for stuffing. Pkt. 10c; ½-oz. 25c; oz. 50c; ¼-lb. \$1.50; lb. \$5.50; postpaid.

Chinese Giant A very large, deep-red variety, very thick and blunt. It is fully twice as large as Large Bell, or Bull Nose, being four or five inches thick at the top and about six inches long. Pkt. 10c; ½-oz. 30c; oz. 60c; ¼-lb. \$1.75; lb. \$6.50; postpaid.

Large Bell or Bull Nose A large early variety of pleasant flavor. Pkt. 10c; oz. 40c; ¼-lb. \$1.25; lb. \$4.50; postpaid.

Ruby King A popular variety of the Bell, or Bull Nose type. The fruit is large, bright, glossy-red,

Pkt. 10c; oz. 45c; ¼-lb. \$1.40; lb. \$5.00; postpaid.



Williams' Ruby Giant Pepper

Pimiento Pepper This is a sweet Pepper—that is the difference—one which you will enjoy eating in salad, either fresh or canned. Pkt. 10c; oz. 35c; ¼-lb. \$1.25; lb. \$4.00; postpaid.

Red Chili A rather small, bright-red variety, about two inches long and pointed. The pods are used in making Chili sauce, and very pungent and hot. Pkt. 10c; oz. 40c; ¼-lb. \$1.25; postpaid.

Long Cayenne Another well known burning hot pepper. Larger than Red Chili but just as hot and pungent. Cayenne is a long red pepper and this is the true type. Pkt. 10c; oz. 40c; ¼-lb. \$1.25; lb. \$4.50; postpaid.

Any three ten cent packages for 25c, postpaid.



Williams' Early Rose Potatoes (See Description on Following Page.)



Williams Irish Cobbler Potatoes

Williams' Maine Grown Potatoes

Cultural Directions A good, sandy loam produces the best Potatoes, but they can be grown on all kinds of soil. New or pasture land, with the turf freshly turned, produces the finest crop. Make furrows of good depth, 3 feet apart. Scatter a liberal dressing of phosphate or decayed stable manure along the drill, and set the seed about 10 inches apart in the rows. Cover with about two inches of soil, and begin to cultivate when the plants are well up. At each successive hoeing, bring additional soil about the plants.

Eight to ten bushels, or three to four barrels sufficient for one acre. One peck will plant 75 hills. Potatoes sent by express or freight, purchaser paying transit.

Williams' Irish Cobbler One of the first varieties of Potatoes to be ready for market, and therefore will command a good price. The skin is creamy white, sometimes netted, which is an indication of good quality; eyes are strong, well developed, and but slightly indented. The flesh is white and of fine flavor. (See engraving.) Peck (15-lbs.) 85c; bushel (60-lbs.) \$3.00; sack (165-lbs.) \$7.50.

Spalding's No. 4 Rose This is a heavy yielding variety, little later than the Early Rose, very popular in the trucking districts of Florida. Our stock of this potato was carefully selected by one of our Maine growers and do not hesitate to recommend our stock to our Florida customers. Peck (15-lbs.) 90c; bushel (60-lbs.) \$3.25; sack (165-lbs.) \$7.50.

Write for special prices on large quantities.

Early Rose (Early.) The standard variety for general use, and one of the best early varieties. (See engraving on page 31.) Peck (15-lbs.) 85c; bushel (60-lbs.) \$3.25; sack (165-lbs.) \$7.50.

Red Bliss To those who prefer a potato with a pink skin and white flesh or those who grow for markets where this color is in demand, we recommend Red Bliss. It is one of the very earliest, nearly round, peels without waste, a fine yielder and makes a very handsome potato. Peck (15-lbs.) 85c; bushel (60-lbs.) \$3.25; sack (165-lbs.) \$7.50.

Green Mountain A medium late, large, handsome, oval white potato. A prolific yielder, and always of fine eating quality. Is not susceptible to disease, and is gradually becoming the standard white potato for late planting. Peck (15-lbs.) 85c; bushel (60-lbs.) \$3.25; sack (165-lbs.) \$7.50.

LATE CROP POTATOES

Peachblow Becoming steadily more popular as a fall Potato. A prolific yielder of medium-large tubers, and of heavy vine growth. Write for prices in the fall.

Hobo Potato A new variety principally used for fall planting. Heavy yielder; also fine for table use. Can be planted successfully July 15th and ready for digging October 15th. Write for prices in the fall.

For Market—Plant Irish Cobbler for spring; Peachblow for fall. For the private garden—Irish Cobbler or Early Rose for spring; Green Mountain for fall.

OUR SEED POTATOES are all especially grown for seed purposes in Aroostook County, Maine, the best potato district in this country, and are very much superior to the stocks ordinarily sold.

PUMPKINS

Any three ten cent packages for 25c, postpaid

Culture Sow when all danger from frost is over in hills eight feet apart, thin out to four plants in a hill. The common practice is to drop two or three seeds in every third or fourth hill in the corn field.

King of the Mammoths An immense variety which has taken numerous prizes offered for the largest and best pumpkin grown; single pumpkins sometimes weigh over 100 pounds. The flesh of this variety is a splendid golden yellow, and it is also an excellent keeper. Pkt. 10c; oz. 20c; ¼-lb. 50c; lb. \$1.75; postpaid.

Sugar or Pie Not a large pumpkin—averaging 10 inches in diameter—but one of the sweetest and best for pies. It is fine-grained, deliciously sweet and a good keeper; flesh rich, deep orange-yellow in color. Pkt. 10c; oz. 15c; ¼-lb. 30c; lb. \$1.25; postpaid.

Large Cheese A most popular variety in the South. Fruit flattened, the diameter being two or three times more than the length; skin mottled light green and yellow, changing to rich cream color as it matures; flesh tender and of excellent quality. Pkt. 5c; oz. 15c; ¼-lb. 30c; lb. 75c; postpaid.

Connecticut Field The best for field culture. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.00; postpaid.

Tennessee Sweet Potato For pumpkin pies we can recommend the Tennessee Sweet Potato. The flesh is thick, fine grained, sweet and

One pound will plant 200 to 300 hills. One ounce will plant 20 hills.



King of the Mammoths Pumpkin

delicious. A big yielder, and of good size. Pkt. 5c; oz. 15c; ¼-lb. 40c; lb. \$1.50; postpaid.

Cushaw, or Crookneck Large, light cream color, fine grain. Pkt. 10c; oz. 15c; ¼-lb. 40c; lb. \$1.50; postpaid.

SQUASH

Early varieties, one once
sufficient for 50 hills

Culture Before you plant Squash the ground must be warm and settled, the soil light and highly manured. Summer varieties should be planted from four to six feet apart each way in the hills, pressing the seed down firmly one inch deep. Late varieties in hills eight feet apart, covering the seed about one and one-half inches deep.

Boston Marrow An early Fall sort of oval form; skin thin and when ripe a light orange color. Good size, excellent keeper. Pkt. 5c; oz. 15c; ¼-lb. 25c; lb. 85c; postpaid.

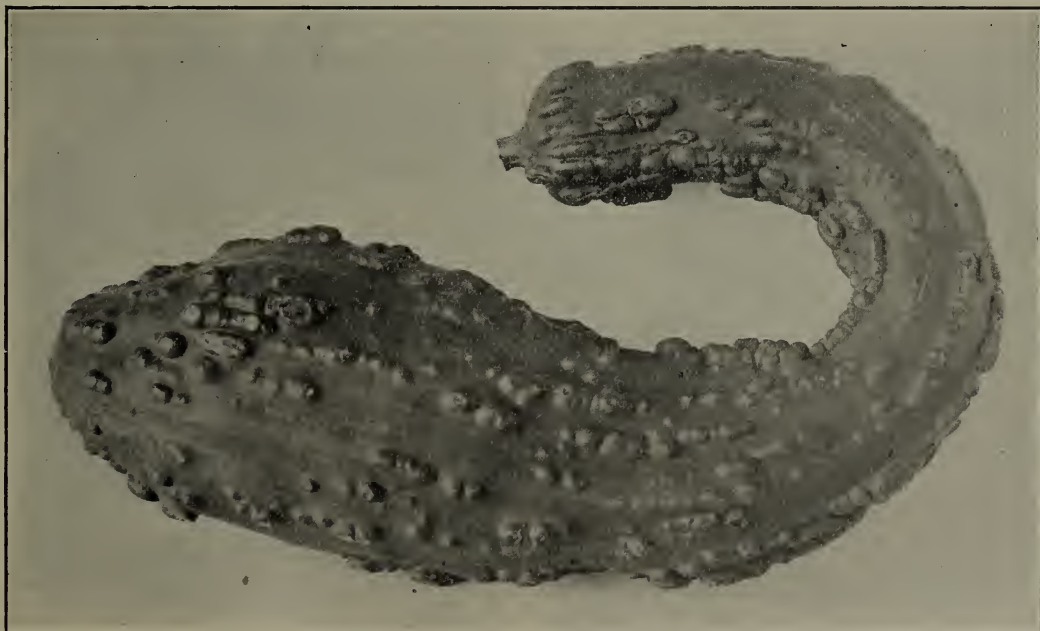
Orange Marrow Similar to Boston, except that the skin is of deeper orange and it matures a little earlier. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

Delicious This is a splendid variety, more like the Hubbard than any other, but surpasses it in some respects for home use, as it is not quite so large. The shell

is not hard, the meat is thicker and of extra fine quality. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

Hubbard The most popular and widely used of the winter squashes. Fruit is oblong and pointed, heavily warted, dark green in color, with orange-colored flesh. Is remarkable for its keeping qualities. Pkt. 10c; oz. 15c; ¼-lb. 40c; lb. \$1.50; postpaid.

Early White Bush or CYMBLINGS. (See specialties, page 10.) Pkt. 10c; oz. 15c; ¼-lb. 40c; lb. \$1.50; postpaid.



Williams' Giant Summer Crookneck Squash.

Ask for a Free Copy of our Leaflet "VEGETABLE GARDENS" to be included with your order.

SQUASH—Continued

Mammoth White Bush Early, uniform and prolific; has beautiful clear white skin and flesh and grows 10 to 12 inches in diameter. Fine for family gardens and nearby markets, and when picked young can be used for shipment. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

Delicata Early, very prolific; orange colored splashed and striped with very dark green. Pkt. 5c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

Golden Yellow Summer Crookneck Old well known crookneck variety, for home and market gardens. Fruits small, of bright orange yellow color and covered with warty excrescences. It makes an excellent shipper, is fine grained and of good quality, especially desirable for its rich, buttery flavor. Pkt. 10c; oz. 15c; ¼-lb. 40c; lb. \$1.50; postpaid.

Williams' Giant Summer Crookneck — The best summer variety. Fruit is right yellow and covered with warts. Pkt. 10c; oz. 15c; ¼-lb. 40c; lb. \$1.50; postpaid.

RADISH SEED

No garden is complete without radishes in succession at all times.

Culture To be tender and crisp, radishes must be grown quickly, and this requires rich soil and plenty of moisture. Commencing with the first mild spell in the spring sow at intervals of ten days, in a light, rich, deeply-worked soil. May also be sown as a catch-crop between rows of beets, lettuce, onions, etc., or sown in the same drill with slow-growing vegetables like carrots and parsnips. When forced in hot-beds, they must have plenty of ventilation and moisture. For fall and winter use, sow the winter varieties in August or September. One ounce will sow 50 feet; 15 to 20 pounds one acre.

Williams' Extra Early Scarlet Globe

A good Radish for early forcing or out-door use. Roots are olive shaped and a bright scarlet. It matures early and is very popular for market growing. (See engraving.) Pkt. 10c; oz. 15c; ¼-lb. 25c; lb. 75c; postpaid.

Early Scarlet Turnip The roots of this variety are small, nearly round, and of a bright scarlet color and remain in good condition for some time. Pkt. 10c; oz. 15c; ¼-lb. 25c; lb. 65c; postpaid.

Williams' Early White Tipped Scarlet

Turnip Radish (See Specialties, page 11.) Pkt. 10c; oz. 15c; ¼-lb. 25c; lb. 75c; postpaid.

Olive-shaped Scarlet Flesh bright and crisp. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.00; postpaid.



White Tipped Scarlet Turnip Radish



Williams' Early Scarlet Globe Radish.

French Breakfast A popular quick growing variety; scarlet, tipped with white. Pkt. 5c; oz. 15c; ¼-lb. 25c; lb. 75c; postpaid.

White Strasburg Oblong, tapering shape; skin and flesh pure white; firm, brittle and tender, retaining its crispness even when the roots are old and large. Best variety for summer use and an excellent all-round variety. Pkt. 5c; oz. 15c; ¼-lb. 35c; lb. \$1.00; postpaid.

White Box An almost globe-shaped sort, slightly flattened, with pure white skin and crisp flesh. Unlike most other early sorts, it remains in fine table condition until quite overgrown. Ready in form 35 to 40 days. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.00; postpaid.

One packet each, any three ten cent packages, 25 cents, postpaid.

Early Long Scarlet Short-Top Roots are smooth, slender, uniform in shape and of attractive bright red color. Grows about one-third out of the ground, and continues tender until matured. Pkt. 5c; oz. 15c; ¼-lb. 35c; lb. \$1.00; postpaid.

WINTER RADISHES

Rose China Winter Bright rose color; flesh firm and piquant; fine for winter use. Pkt. 5c; oz. 15c; ¼-lb. 25c; lb. 75c; postpaid.

Icicle Roots 6 inches long, and from ¾ to 1 inch broad at top. Ready for use in thirty to thirty-five days from planting. Very tender, crisp, and juicy. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.00; postpaid.

White Chinese, or Celestial A comparatively new variety, but extremely popular wherever known. Of same shape and size as Long Black Spanish, but superior in every way. Beautiful white skin and flesh, of excellent quality. Pkt. 10c; oz. 15c; ¼-lb. 35c; lb. \$1.00; postpaid.

Write for special prices on large quantities.

SPINACH Reputed to be most wholesome because it contains iron

Culture For early summer use, sow early in spring in a good, well-fertilized soil, in drills 1 inch deep, 1½ to 2 feet between the rows. For winter and spring use, sow from September to December 15. Requires but little cultivation. Two ounces will sow 100 feet of drill, 12 to 15 lbs. one acre. The above applies to all varieties except New Zealand, which should be planted after frost is over. Write for special prices on large quantities.

Williams' Bloomsdale, or Norfolk Curled

Savoy A valuable variety which is extensively grown, producing large crops of thick-leaved spinach. Very early and hardy; one of the best for market and canning. Plants of upright growth, leaves of medium size, more or less crumpled or blistered; color glossy medium green. (See engraving.) Pkt. 5c; oz. 10c; ¼-lb. 20c; lb. 50c; postpaid.

Victoria This remains in edible condition longer than other varieties, yet is very early, of fine quality and good in every way. Pkt. 5c; oz. 10c; ¼-lb. 20c; lb. 50c; postpaid.

Long Standing A good variety to sow for either spring or fall. It is a heavy cropper and in spring planting does not run to seed quickly. A late maturing, very large plant with broad arrow-shaped leaves but slightly crumpled. Pkt. 5c; oz. 10c; ¼-lb. 20c; lb. 50c; postpaid.

New Zealand Spinach Another fine variety for summer and fall use. It differs from the true Spinach in that it forms vines 2 to 3 feet long from which the thick, fleshy, dark green leaves can be picked continuously throughout the summer; grows well in



Williams' Bloomsdale, or Norfolk Curled Savoy Spinach

the hottest weather. Plant in hills a foot apart; seeds should be soaked in hot water over night before planting, as the shell is very hard. Pkt. 10c; oz. 15c; ¼-lb. 30c; lb. 35c; postpaid.

WILLIAMS' WONDERFUL TOMATOES

Culture Seed can be grown in hot-bed or in boxes in the house for earliest plants and later in cold-frames or in the open ground as soon as danger of frost is past. If sown thinly in rows they will stand until large enough to handle. Enough plants can be started in an ordinary wooden box to supply the average family, but they would of course have to be transplanted to pots or other boxes to afford room for growth. Tomatoes are one of the earliest vegetables to grow from seed, and all should have them, as they are not at all particular as to soil. Where possible, it is well to make this rich, either with stable manure or a good grade potash fertilizer. Set the plants three to four feet apart each way and cultivate well. An ounce of seed will produce about 1500 plants.

Earliana It is remarkable for its size and its earliness. Good form and wonderfully productive. A red color which is in demand in some markets. Pkt. 10c; oz. 30c; ¼-lb. \$1.00; lb. \$3.50; postpaid.

Williams' June Pink Enormous bearer, frequently bearing clusters of six to eight fruits of medium size, uniform, smooth, and attractively shaped. Bushes are compact, yet branch freely. Excellent for shipping, a favorite with the market gardener for an extra early purplish pink tomato, and always a delight in the home garden. (See engraving.) Pkt. 10c; oz. 40c; ¼-lb. \$1.25; lb. \$4.25; postpaid.

Williams' Selected Globe (See Specialties, page 12. Pkt. 10c; oz. 40c; ¼-lb. \$1.25; lb. \$4.50; postpaid.

Bonny Best Early Tomato. It has been tested and found ten days earlier than the Chalk's Early Jewel and ripens with the Earliana. Strong grower, very productive, ripens evenly all over, excellent shipper. Pkt. 10c; oz. 30c; ¼-lb. \$1.25; lb. \$4.00; postpaid.

Chalk's Early Jewel The earliest of the bright scarlet colored. Deep fruited and very hardy and solid. Pkt. 10c; oz. 35c; ¼-lb. \$1.10; lb. \$4.00; postpaid.

Improved Stone One of the largest and most solid late red sorts, splendid for slicing or canning. Fruit is round, slightly flattened, very large and astonishingly heavy. Pkt. 10c; oz. 30c; ¼-lb. \$1.00; lb. \$3.50; postpaid.

Special Offer 1 packet each, any 4 varieties, your choice of Tomatoes, 30c, postpaid.

Dear Sir:

We are sending with ours an order for a neighbor. Mail all of the seed to us. I have used your seed with great success for four years.

North Carolina.

Sincerely,
J. H. SMITH.



Williams' June Pink Tomatoes

Ask for a free leaflet "TOMATO CULTURE" to be included with your order.

TOMATOES—(Continued)

Williams' Early Detroit

The vines are vigorous and very productive. The fruits are very smooth, uniform in size, nearly globe-shaped, firm, and of excellent quality. Early Detroit is one of the most valuable shipping tomatoes yet produced. It is also desirable for the home garden and near markets. (See engraving.) Pkt. 10c; oz. 35c; ¼-lb. \$1.25; lb. \$4.50; postpaid.

Ponderosa The giant of all tomatoes. It must have rich soil to be a success, but fruits are very large, purplish pink in color, solid, meaty, and very sweet. These being large and ribbed, are for home use. Pkt. 10c; oz. 45c; ¼-lb. \$1.50; lb. \$5.50; postpaid.

John Baer One of our earliest and most profitable varieties, fruit globe shaped, bright scarlet in color, good size, sound, coreless and with few seeds. Vigorous and prolific. Pkt. 10c; oz. 35c; ¼-lb. \$1.25; lb. \$4.50; postpaid.

Brimmer The Brimmer is not the earliest tomato, although not more than 5 to 7 days later than the extra earliest, but the enormous size and remarkable yield more than make up for any want of earliness. The vines are vigorous, luxuriant and healthy and bear a tremendous load of fruit right up to frost, the fruits holding their size till the end of the season. Pkt. 10c; oz. 45c; ¼-lb. \$1.50; lb. \$5.50; postpaid.



Williams' Early Detroit Tomatoes.

Small Fruited Varieties for Preserving

RED CHERRY. Small, red, borne in clusters.

STRAWBERRY, or Ground Cherry. Fruit is yellow; grows in husks; excellent for preserves.

YELLOW PEACH. Fruit is yellow, peach shape.

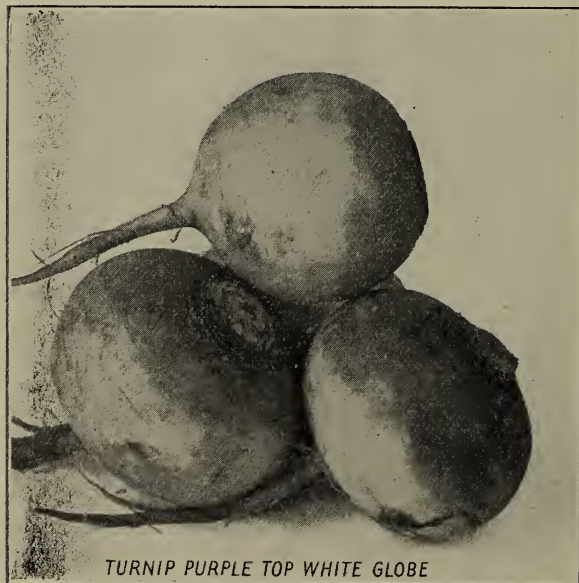
YELLOW PLUM. Lemon color, oval, smooth.

Pkt. 10c; oz. 35c; ¼-lb. \$1.25; postpaid.

TURNIPS

Your choice, any six five cent packages for 25c, postpaid.

Culture Turnips grown quickly so that they are tender, make a delicious vegetable. The home gardener can give them easily that extra care needed to bring them to perfection. The requirements are for a rapid uninterrupted growth, and for moist, well worked soil. In Alaska turnips reach perfection, and all over our coast they are excellent. Sow in early spring and again in August. This latter gives roots for winter. Put the rows 12 to 18 inches apart, and thin to 5 to 8 inches. Do not transplant except when very young and that should not be necessary. One ounce of seed is sufficient for 200 feet of drill; 1½ to 2 pounds to the acre.



TURNIP PURPLE TOP WHITE GLOBE

Williams' Purple Top White Globe

An early variety very much in favor with the market gardeners. Of globe shape, heavy cropper; skin white with purplish top. Superior quality either for table use or for stock. Is a heavy cropper, early and a fine keeper. (See engraving.) Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. 75c; postpaid.

Purple Top Strap Leaf Red Top, or Early Quick grower, flesh is very fine grain, sweet flavor; white with purple top. More generally used than any other variety, both for market and for stock. Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. 75c; postpaid.

Early White Flat Dutch A medium-sized flat variety; clear white, early, and of fine flavor. A fine table variety. Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. 85c; postpaid.

PROFIT SHARING COUPON

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TURNIPS—(Continued)

Pomeranian White Globe or Large White

Norfolk One of the most productive kinds and in good, rich soil the roots will frequently grow to twelve pounds in weight. The roots are globe-shaped or slightly flattened; skin very white and smooth. This sort is used for stock feeding and is also good for table use if pulled when the roots are not more than four to five inches in diameter. Where the winters are mild the tops are used for greens. Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. 75c; postpaid.

Extra Early White Milan A very early variety, medium sized, flat and clear white. A fine home-garden variety. Pkt. 10c; oz. 15c; ¼-lb. 40c; lb. \$1.40; postpaid.

RUTABAGA SWEDISH or RUSSIAN TURNIP

American Purple Top Improved. Market gardeners' favorite. More largely grown than any other variety. Yellow flesh, solid and

fine quality. One of the very best keepers. Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. 75c; postpaid.

Long White Cowhorn Rather resembles a carrot in growth, although generally inclined to be crooked. It is of rapid growth, pure white and good for either stock or table use. Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. 75c; postpaid.

Seven Top A very hardy variety, grown exclusively for salad. Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. 75c; postpaid.

Orange Jelly, or Golden Globe A globe-shaped yellow variety, with firm and crisp yellow flesh. A very fine table variety. Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. 75c; postpaid.

Amber or Yellow Globe Skin is a clear yellow. Is of large size and fine flavor. Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. 75c; postpaid.

Miscellaneous Seeds, Plants and Roots

SALSIFY

(Vegetable Oyster)

One ounce will sow about 50 feet of drill

Culture Sow the seed early in spring, in drills 12 inches apart and 1 inch deep, thinning out the young plants to 6 inches. The roots will be ready in October, when a supply should be taken up and stored like carrots. Those remaining will suffer no injury by being left in the ground until spring.

Mammoth Sandwich Island Tender and delicious. Superior to all other sorts. Pkt. 10c; oz. 20c; ¼-lb. 65c; lb. \$2.00; postpaid.

RHUBARB OR PIE PLANT

This can be grown from seed, although it takes much longer to get returns. Seed can be sown early in the Spring in drills and thinned to six inches apart. In the Fall transplant the young plants, setting them about four feet apart each way. The ground cannot be too rich and each Fall, after growth has ceased, it is advisable to mulch well with manure. Stalks should not be pulled until the second year from planting, and no plants should ever be allowed to go to seed. Cut the blossom stem out as soon as it appears. A dozen roots are ample for an average garden.

Myatt's Victoria Seed The best Rhubarb for the South. Pkt. 5c; oz. 15c; ¼-lb. 35c; lb. \$1.25; postpaid.

Bird Seeds Safeguard the health of your birds by feeding only well re-cleaned seeds. We use only the highest grade seeds in our "Songster's Food," such as will keep your birds in perfect condition.

CANARY SEED.—lb. 20c; 5-lbs. 80c; postpaid.
HEMP SEED.—lb. 20c; 5-lbs. 80c; postpaid.
RAPE.—lb. 20c; 5-lbs. 75c; postpaid.
SUNFLOWER.—lb. 20c; 5-lbs. 80c; postpaid.
Write for prices on large quantities.

VEGETABLE PLANTS

Write us in the Spring for prices on plants. Following varieties: Cabbage, Lettuce, Egg Plant, Peppers, Tomatoes, Etc., Etc.

VEGETABLE ROOTS

Rhubarb Roots Victoria. Extra large divided roots. Each 15c; doz. \$1.50; 100 \$8.00. Add postage weight, 3-lbs. per dozen.

Horse-Radish Roots Doz. 50c; 100 \$2.00. By mail, doz. 55c. If wanted by Parcel post, add 10c per 100.

Asparagus Roots—See page 15.

HERBS

Aromatic, Medicinal and Pot

Cultural Directions Sow in the early Spring, in rich, loamy soil and in shallow drills about eighteen inches apart. Most of the seed should be sown in April and the larger growing varieties can be transplanted when large enough. Cut when in bloom, and let them wilt in the sun and thoroughly dry in the shade. Prices include postage.

ANISE.—Pkt. 10c; oz. 25c.
BASIL SWEET.—Large, green. Pkt. 10c; oz. 30c.
BORAGE.—Pkt. 10c; oz. 30c.
CARAWAY.—Pkt. 10c; oz. 30c.
CORIANDER.—Pkt. 5c; oz. 25c.
DILL.—Pkt. 10c; oz. 25c.
FENNEL, FLORENCE.—Pkt. 10c; oz. 30c.
LAVENDER.—Pkt. 10c; oz. 80c.
MARJORAM (Sweet American).—Pkt. 10c; oz. 30c.
ROSEMARY.—Pkt. 15c; oz. 75c.
SAGE.—Pkt. 10c; oz. 40c.
SAVORY, Summer.—Pkt. 10c; oz. 50c.
THYME, Broad-Leaf Winter.—Hardy. Pkt. 10c; oz. 50c.

Gentlemen: I wish to advise you that the seeds I have purchased from you have all grown very satisfactory.

John Duggan, Expo, Va.

Dear Sirs: All the seeds I had from your firm the past few years have proved entirely satisfactory. I will continue to plant your seeds and always recommend them as the best.

N. C. Cormwell, R. F. D. No. 1.

Norfolk, Va.

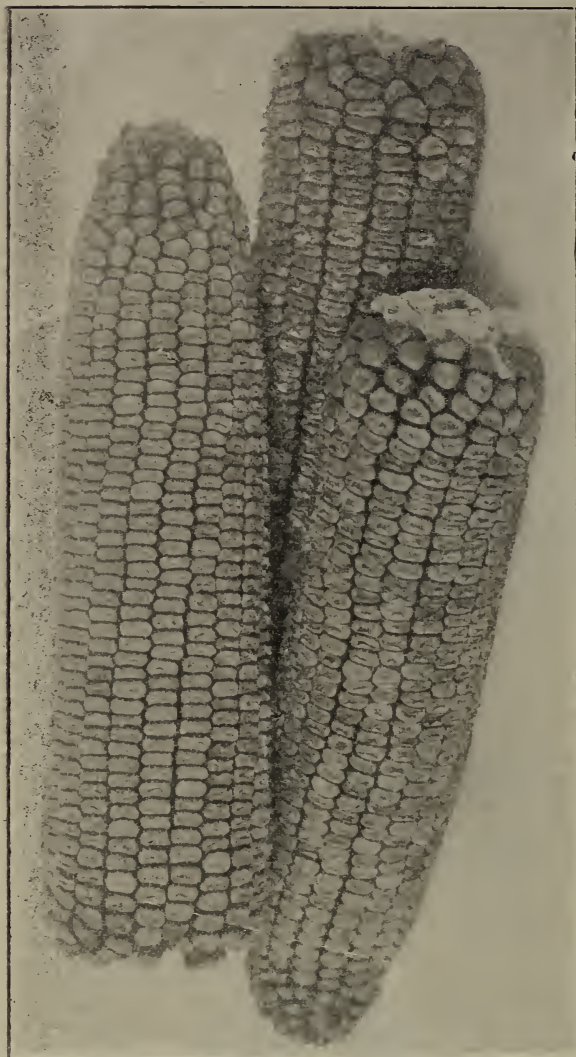
Gentlemen: It certainly affords me great pleasure to advise you that the seeds I purchased from you last season grew very good. Be sure to send me one of your new seed books.

J. T. Davison, R. F. D. No. 5.

Norfolk, Va.

Williams' Field and Farm Seeds

Selected Field Corn



Williams' Virginia Yellow Dent Field Corn.

PRICES on FIELD SEED CONTINUALLY FLUCTUATE

Williams' Virginia Yellow Dent One of the best standard yellow varieties for this section, making a good growth of stalk and fodder, but not recommended for thin soils. As it is very early, it may be planted later than other yellow sorts. Our stock is carefully selected each year and will be found entirely satisfactory in every respect. (See engraving.) lb. 20c; postpaid: Peck (14 lbs.) 85c; bushel (56 lbs.) \$3.00; not prepaid.

Prolific A heavy-yielding white Corn. This is not as quick maturing as some kinds, but gives large yields. Grows 3 to 4 ears to stalk, well filled with solid heavy grains. Peck (14 lbs.) \$1.00; bushel (56 lbs.) \$3.50; not prepaid.

Virginia Horse Tooth The name Horse Tooth indicates the shape and depth of the grain. Besides making excellent ensilage it is a splendid yielding filed corn. Horse Tooth has a fine reputation among dairymen and stock feeders, giving a good length of ear and an abundance of ensilage. lb. 20c; postpaid; Peck (14-lbs.) 85c; bushel (56-lbs.) \$3.00; not prepaid.

Hickory King The grain is so wide and deep and the cob so small that often a single grain will cover the end of a broken cob. It has been called the Poor Man's Corn because it can be depended upon to produce a crop on poor, thin land; on good land it bears two ears to the stalk. lb. 20c; postpaid; Peck (14-lbs.) 85c; bushel (56-lbs.) \$3.00; not prepaid.

Trucker's Favorite A standard early white variety, useful either as early roasting ears or for early dry corn. lb. 20c; postpaid; Peck (14-lbs.) \$1.25; bushel (56-lbs.) \$4.00; not prepaid.

Norfolk Market The most popular kind among our market gardeners. Very hardy, and has ready sale either in green state or matured. The ears are about 8-inches long; 14 to 16-rowed, and well filled. The grains are plump and milky when green, of exceptional quality. Our stock is absolutely true to type and of first-class quality, and our customers need have no fear of this, irrespective of warnings to the contrary. Pkt. 10c; lb. 25c; 2-lbs. 45c; postpaid; Peck (14-lbs.) \$1.25; bushel (56-lbs.) \$4.00; not prepaid.

BURT OR
NINETY-DAY
OATS

OATS

Grown Under Our Own Personal Supervision

Burt, or Ninety-Day The quickest growing, most prolific and surest cropping of spring Oats. Usually free from rust, healthy, clean, and makes a vigorous growth of straw, besides a good yield of grain. (See engraving.) Bushel (32-lbs.) \$1.25; not prepaid.

Virginia Gray Winter, or Turf A Southern favorite for fall planting, being used for winter pasturage as well as the grain. Also popular for spring sowing. Sown early, they will outyield spring Oats, though not maturing so quickly as if sown in the fall. Bushel (32-lbs.) \$1.50; not prepaid

Texas Red Rust-Proof There is no better Oat than the Texas Red Rust-proof, providing one gets the genuine Oat, grown in the State of Texas. The Texas Oats are heavy grains, nearly all of them having a distinctive beard. Color varies, according to the season. They are largely planted in the spring and early fall in Florida. Write for prices.

Williams' Seeds Gives Better Results—Ask The Planter.



SOY OR SOJA BEANS

They will grow on
all kinds of soil

Culture Soy beans may be planted either broadcast or in drills. Usually a better crop is had when planted in drills and cultivated, and few crops leave the land cleaner and in better condition for the following crop than soy beans. They grow equally well on light and heavy soils, but on heavy soils they should not be planted more than 1 to 1½ inches deep except in dry seasons. On light sandy soils they may be planted deeper, but not more than 3 inches deep. When sown broadcast sow one to one and a half bushels to the acre; in drills about a peck to the acre. Plant in April, May, or June.

Mammoth Yellow The largest and most popular variety for forage purposes. A little later in maturity than other kinds, but makes larger yields, both of forage and seed. Especially valuable for this section and farther South. (See engraving.) lb. 20c; postpaid. Peck 75c; bushel \$2.50; not prepaid.

Hollybrook Early Makes a quicker growth and matures its crop two or more weeks earlier than the Mammoth Yellow Soja. It makes a large yield, both of forage and peas, and the added advantage of its earliness makes it a most distinct and valuable acquisition. It is a sure cropper and a vigorous, quick-growing variety. Sown as a forage or hay crop, it is much easier to cure and handle and makes even a more nutritious crop than cowpeas. lb. 20c; postpaid. Peck, \$1.25; bushel, \$4.00; not prepaid.

Virginia Although particularly adapted to the South, the Virginia has been grown with marked success in the North and Middle West for both hay and ensilage. It matures early, makes excellent forage and a large yield of beans. The stalk is not coarse, is easily cut and easily cured. lb. 25c; postpaid. Peck, \$1.75; bushel, \$3.00; not prepaid.

COW PEAS

THE SOUTH'S ECONOMICAL SOIL IMPROVING AND HAY CROP

Of great soil-improving value, also making a fine, nutritious green forage or hay crop, enriching the soil when the crop is cut off. Should be sown from May to July, at rate of 1½ bushels to acre, either broadcast or in wheat drills.

Prices on Cowpeas continually fluctuate. Write for quotations.

Black A standard variety, very prolific and early maturing, making a large growth of vine and a heavy yield of Peas. Fine also for forage. lb. 20c; postpaid. Peck, \$1.25; bushel, \$4.25; not prepaid.

Early, or Ramshorn Black Eye Similar in growth of vine but making larger yield than Black Eye, and maturing quicker. lb. 25c; postpaid. Peck, \$1.50; bushel, \$5.00; not prepaid.

Whippoorwill A favorite, easily, upright-growing variety, with brown-speckled seed, which are easily gathered. Makes a good growth of vine, fine for dry forage, and is claimed to be superior in land-improving qualities. lb. 20c; postpaid. Peck, \$1.25; bushel, \$4.00; not prepaid.

New Era Vine somewhat longer than Whippoorwill, but peas not quite as large. Makes quicker growth, however, and is valuable on this account. lb. 25c; postpaid. Peck, \$1.50; bushel, \$5.00; not prepaid.

Clay Makes a vigorous growth of vine and pea, similar to Black, but later in maturing. lb. 20c; postpaid. Peck, \$1.00; bushel, \$3.50; not prepaid.

Write for special Prices on large Quantities of Field Seeds.

GRASS AND CLOVER SEEDS

SUDAN GRASS



SUDAN
GRASS

A tall annual grass, growing 6 to 8 feet high when drilled, but when sown broadcast thickly does not grow quite so tall. Every farmer and stock raiser should learn about this wonderful grass, as it is eaten by all kinds of stock, and will produce more hay to the acre than any grass that has ever been introduced. Allows 3 to 4 cuttings, and produces 2 to 5 tons per acre, depending upon the soil.

Can either be drilled at the rate of 2 to 3 pounds per acre in 3 foot rows, or broadcast at the rate of 10 to 20 pounds per acre. Plant from March to August. (See engraving.) Peck (10-lbs.) \$1.25; bushel (40-lbs.) \$4.50; 100-lbs., \$10.00; not prepaid.

Yields two or more cuttings a season.

It stools out wonderfully after the first cutting.

Stock eat it up clean, blades, stalks and heads. A wonderful summer catch crop for hay.

A sure hay crop in a dry season.

Ready to cut in about 45 days after first cutting. It can be grown with cow peas or soy beans.

Red Clover This is the common Red Clover so popular and well known everywhere—the farmer's friend, the soil restorer, the bountiful feed plant. Can be sown in the Spring from February 15th to April 1st; also from July 1st to October 1st, and will be ready for mowing the following spring. Sow 12 to 15 pounds to the acre. Pound, 35c; postpaid. Peck (15-pounds) \$4.00; bushel (60-pounds) \$15.00; 100-pounds, \$24.00; not prepaid.



Red Clover



GOLDEN
MILLET

GOLDEN MILLET

(Choice Tennessee Grown)

Golden Millet makes a quickly grown, easily cured and large yielding, nutritious hay crop. It comes so quickly that it can be sown after wheat is cut, and leaves the land clean and in fine mechanical condition for the following crop. It is a common mistake to suppose that it is particularly exhaustive to the land. It is exhaustive if allowed to stand till the seeds form, but millet should be cut when coming into flower, as after that stage the woody fibre forms in the stem and the hay is hard and impalatable. Cut at the proper time, it makes a splendid hay. As a summer catch crop it has few equals, for it makes its crop in about sixty days, discing and harrowing wheat or oat land being the only preparation necessary.

To have the finest millet hay, sow thickly, not less than a bushel to the acre, from the middle of May till the end of July. Thin seeding makes coarse stems and a poorer hay. Sow only Southern grown millet—do not sow common or Western millet, as it does not do well in the South, and you will be disappointed in the crop. (See engraving.) Pound 15c, postpaid; Peck, \$1.00; bushel, \$3.50; not prepaid.

Crimson or Annual Clover Makes excellent green foliage, or if cut when in bloom will make good hay. Especially valuable for improving the soil, making a quick, heavy and very valuable crop for plowing under. May be sown to advantage among corn, cotton and tobacco at the last cultivation, and will afford a dense mat for turning under in spring. Sow 25 to 30 pounds to the acre from July to November. Pound, 15c, postpaid; Peck, \$2.00; bushel, \$6.50; 100-lbs. \$10.00; not prepaid.

White Dutch Clover Thrives in any soil or climate, and being of low, creeping growth is especially valuable for pastures and lawns. Pound 75c, postpaid; peck (15-pounds) \$10.00; bushel (60-pounds) \$37.50; 100-pounds, \$60.00; not prepaid.

OUR SUDAN GRASS AND GOLDEN MILLET are famous. Write us for special prices on large quantities.

ALFALFA, or LUCERNE

Best American Grown Makes the most valuable and largest yielding hay crop known. Can get 4 to 5 cuttings a year from sowing. Can be sown in the spring, in March and April, and a satisfactory stand will make 1 or 2 cuttings the same year and full cuttings the following year. It should always be cut before coming into full bloom and handled as little as possible thereafter. 20 to 30 pounds to acre, generally broadcast. A slight top dressing of well-rotted stable manure is advisable. Pound, 45c, postpaid; bushel, (60-pounds) \$15.00; 100-pounds, \$24.00; not prepaid.

SORGHUM

Williams' Early Amber Furnishes a large yield of most nutritious forage, good either green or cured, and yielding 2 to 3 cuttings a year, stooling out thicker each time it is cut. It takes its name from the clean amber color of the syrup. Grows 10 to 12 feet high. Sow at rate of a peck to acre, in drills 3 to 4 feet apart; broadcaster 1 to 1½ bushels to acre. Pound 15c, postpaid; bushel (50-pounds) \$2.75, not prepaid.

Dwarf Essex Rape Excellent for grazing sheep, hogs and all kinds of stock. Especially valuable for sheep and hogs with young, as it is an excellent milk producer. Sow 10-lbs. to the acre broadcast; 5-lbs. if drilled. Pound 20c, postpaid; 5-pounds, 75c; 100-pounds, \$11.00, not prepaid.

Beggar Weed, or Florida Clover Adapted to Florida climate and sandy soil. A natural plant, coming from seed each year. Stock prefer it to all other. Sow at the beginning of the summer broadcast, or in the corn rows at the rate of 10 pounds per acre. Write for prices.



Alfalfa

PEANUTS

Spanish Nuts small, and have a thin hull, full kernel, and yield enormously. The vines and roots make excellent food for stock. Write for prices.

North Carolina A running Peanut. The pod is larger than the White Spanish. Write for prices.

SEED RYE

Rosen Rye This variety, which was originated by the Michigan State Agricultural Experiment Station, has long, broad heads with larger, plumper berries than other varieties. Is generally regarded as yielding from 5 to 15 bushels more per acre than ordinary rye. Pound, 15c, postpaid; bushel (56-pounds) \$3.00; not prepaid.

Abruzzi A new importation, and much is claimed for it. The Abruzzi variety has a very rapid growth and stools enormously on average soil. Write for prices.

Florida Black Rye The only variety that will give absolute satisfaction in Florida. You can graze this rye or cut and feed green. Write for prices.



Rosen Rye

PROFIT SHARING COUPON

On the inside front cover of this book, purchasers will find our profit sharing coupon. This coupon counts as cash on all orders for vegetable or flower seed amounting to \$1.50 or over. Be sure to enclose the coupon with your order and deduct the 25c from the total amount of your order.

Williams' Flower Seeds for Southern Gardens



Flower Beds Showing Williams' Single Petunias in Bloom.

Our Flower Seeds Are Famous

Special Offer On all flower seed orders amounting to one dollar or over, you may select FREE FLOWER SEEDS to the value of 25 cents for each dollar's worth purchased. You actually receive \$1.25 worth of flower seeds for \$1.00. This offer applies to flower seeds only and does not include vegetable seeds, special flower collections, bulbs or any other items listed in this book.

ALL FLOWER SEEDS ARE POST PAID AND WE GUARANTEE SAFE DELIVERY TO YOUR HOME

There are few places where some variety of Flower Seeds cannot be sown and certainly, where there is any space at all, one should have flowers. There is a sufficient variety that all can have flowers who will devote a little time and attention to their care, and experience is not necessary to produce many of our most popular varieties. For the beginner, we would suggest such kinds as Alyssum, Asters, Calliopsis, Cen. aurea, Cosmos, Nasturtium, Dianthus, Poppies, Verbenas and Zinnias.

Culture Light rich loam is most suitable for flowers. The soil should be finely pulverized for best results. This is of paramount importance if one wishes to grow them successfully. They, in common with all other seeds, should be sown thinly and the soil pressed firmly over them when covered. Water frequently. A good plan is sow the seed in rows about four inches apart, cover the seed about 3 times its size, then transplant to the permanent garden later. This applies to all the above varieties or those flowers to be grown from small seeds with the exception of Poppies and Nasturtium and other large seeded varieties which can be planted where they are intended to flower, planting about two inches apart in the rows.

Annuals are those flowers that attain their full growth, bloom and die the first year. Among these are Asters, Balsam, Cosmos, Zinnias, Mignonettes, Sweet Peas, Nasturtiums, Morning Glories and other brilliant and fragrant sorts.

Biennials produced from seed generally flower the first and second year and then die, the life of the plant being two seasons.

Perennials usually do not flower the first year, unless started early in the season. Perennials live and blossom year after year. These sorts constitute the "Hardy Flowers," such as Hollyhocks, Sweet William, etc.

Hardy, Half-Hardy and Tender are common terms applied to Annuals. All hardy Annuals can be sown at same time Peas and Radishes are usually sown in the vegetable garden. Half-Hardy Annuals may be sown at corn planting time or when there is little danger of frost. Tender Annuals should not be sown until the ground is warm and the weather is settled, usually in May.

WILD FLOWER SEEDS MIXED. Try a package of our charming wild flower garden seeds mixed. The result obtained is simply wonderful, price 15c. per ounce

Williams' Wonderful Asters

Invincible Asters Invincible are the latest and highest achievements in China Asters, a superior race in every way. The plants are of very healthy, robust, branching growth, about 2 feet high—though under best culture often 3 feet—producing, on long stems, massive Chrysanthemum-like flowers of perfect form and graceful outline, and are exceedingly double to the very center. The flowers are the most beautifully formed of all large Asters. (See engraving.)

	Pkt.	Per 1,000 seeds
Carmine-rose. Bright rosy-carmine-----	10c.	50c.
Crimson-brilliant. Rich bright red-----	10c.	50c.
Deep Blue. Bright indigo-blue-----	10c.	50c.
Deep Pink. Lively warm rose-pink-----	10c.	50c.
Lavender. Charming silvery-lavender-----	10c.	50c.
Pearl-pink. Exquisite blush and shell-pink	10c.	50c.
Violet-purple. Rich velvety purple-----	10c.	50c.
Pure White. Purest snow white-----	10c.	50c.
Mixed Colors-----	10c.	40c.

Collection of Invincible Asters. 1 pkt. each of the above 8 varieties for 60c, postpaid. Any three packets for 25c.

Crego's Giant Comet Asters We consider this the finest and largest of all Comet Asters, bearing immense fluffy flowers five inches and over in diameter. We offer five colors, viz:

	Per Pkt.
White. Pure white-----	10c.
Pink. Delicate shell-pink-----	10c.
Purple. Bright purple-----	10c.
Rose. Rich deep rose-----	10c.
Lavender. Deep lavender-----	10c.

Crego's Mixed. All colors pkt. 10c; 3 pkts. 25c.
Collection of a packet each of the 5 colors, 40c., postpaid.

Sample's Late-Flowering Asters Superior late-flowering Branching Asters. The flowers are large, very double and borne on long stems. They begin blooming about the first of September. Plants strong growers, 18 inches to two feet high.

	Per Pkt.	Per 1000 seeds
Crimson-----	10c.	50c.
Lavender-----	10c.	50c.
Shell-pink (Mary Sample)-----	10c.	50c.
Purple-----	10c.	50c.
White-----	10c.	50c.
Mixed Colors-----	10c.	40c.

Collection of above 5 separate sorts 35 cents, postpaid.



Invincible Asters

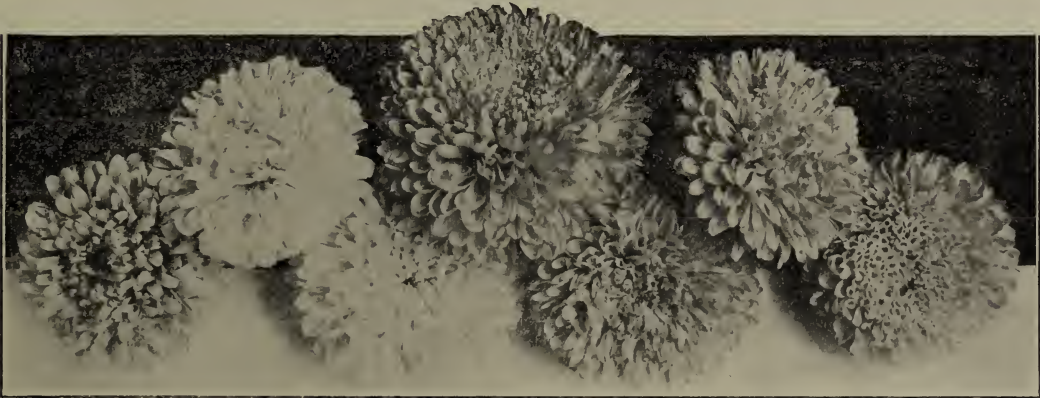
A GARDEN FULL OF FLOWERS FOR 50 CENTS

Special Offer One packet each of the following list of beautiful Annual Flowers that will all bloom this year. "Garden Beautiful" Collection.

Ageratum, Blue Perfection. Compact bushes, 8 inches high blue flowers.
Alyssum, Little Gem....An improved white Sweet Alyssum.
Aster, Giant Comet, Double, Mixed Colors. One of the best Asters.
Cosmos, Mixed. Fall-flowering, fine and showy.
Dianthus, Double Pinks. Various colors, edged and marbled.
Eschscholtzia, Golden West. Large flowering California Poppies.

Marigold, Mixed Colors. Improved African Marigold.
Nasturtium, Tom Thumb. Large flowers of various colors.
Petunia, Large-Flowering, Single. Mixed Colors. Blotched, striped.
Phlox Drummondii, Large-Flowering Mixed. Improved varieties.
Poppy, Giant Double, Brilliant Mixture. Immense flowers, very showy.
Zinnia, Double, Mixed Colors. Immense double flowers.

One Packet Each of Above Twelve Varieties, 50 cents, Postpaid.



Sample's Late Flowering Asters

Be sure to include with your order one packet each of the beautiful annual special flowers shown on back cover.

Choice Flower Seeds

Flower Seeds Delivered Free by Mail on Receipt of the Stated Price. Price Per Ounce or Pound for Those Not Quoted, on Application.

We use the following abbreviations: "h." for hardy; "h. h." for half hardy; "t." for tender; "a." for annual; "b." for biennial; "p." for perennial; "h. a." for hardy annual.

Acroclinium Very pretty annual, producing white and rose-colored daisy-like flowers in August and September. These are the "Immortelles," so desirable for wreaths and winter bouquets. One foot. Double mixed, pkt. 10c. Single mixed, pkt. 10c.

Ageratum (Floss Flower). A hardy annual of easy culture, especially valuable for bedding, as it is literally covered with blossoms all summer. Sow the seed early in the spring, either in boxes to transplant, or out of doors, and thin to four or six inches.

MEXICANUM Imperial Dwarf Blue. Eight inches high, flowers blue. Pkt. 10c; ¼-oz. 25c.

MEXICANUM, Imperial Dwarf White. Eight inches high, flowers white. Pkt. 10c.; ¼-oz. 25c.

Amaranthus Caudatus (Love Lies Bleeding). Light yellowish-green foliage; long, drooping, crimson flower spikes. Plant three to four feet high. Pkt. 10c.

Anchusa Italica (Dropmore) A fine, large herbaceous plant; 4 to 5 feet high, with flowers of lovely Gentian blue, Pkt. 10c.

Alyssum Too well known to need description. A most thankful flower, always in bloom; principally used for borders around beds and along walks.

BENTHAMII (Sweet Alyssum). Pure white. 1 ft. Pkt. 5c.; oz. 35c.; ¼-lb. \$1.25.

LITTLE GEM. Very dwarf and compact, free flowering; for bedding, edging, or rockwork. 6 inches. Pkt. 10c; ¼-oz. 25c; oz. 50c.

ALYSSUM, Saxatile Compacta. A beautiful dwarf hardy perennial for spring beds or edging a flower border. The flowers are produced in large clusters and are of a deep pure yellow; ¾-foot. Pkt. 10c.

Antirrhinum Giant Flowering. These improved "Snapdragons" form brilliant garden beds, flowering profusely and continuously during the summer and fall. They grow about 2-feet high. The flowers are nearly double the size of the older sorts.

Tall Giant-Flowering Mixed. Per 1000 seeds, 25c; pkt. 10c.

The following separate colors, pkt. each 15c

Blood-Red	Orange-Scarlet.	White throat.
Deep Scarlet	White	
Light Pink	Yellow	

Collection, 1 pkt. each, 6 separate colors-----50c

Aquilegia (Columbine). Hardy garden perennials. Very effective when grown in beds or the herbaceous border. Height 1½ to 3 feet.

AMERICAN HYBRID COLUMBINE. The plants are robust; the flower stems, often 40 inches in height, carry clusters of immense long-spurred, single flowers. The colors are superb. Pkt. 15c.

Single, Large-Flowering, Mixed Colors, Pkt. 5c.

Double-Flowering, Long Spurred Hybrids. Beautiful long-spurred, large, double flowers, Pkt. 25c.

Balsam, or Lady's Slipper A tender annual, with brittle stems and foliage. Grows about 12 inches high. Flowers both single and double, in bright colors and variations; are wax-like and grow close to the stem. Pkt. 10c; ¼-oz. 20c; oz. 50c.

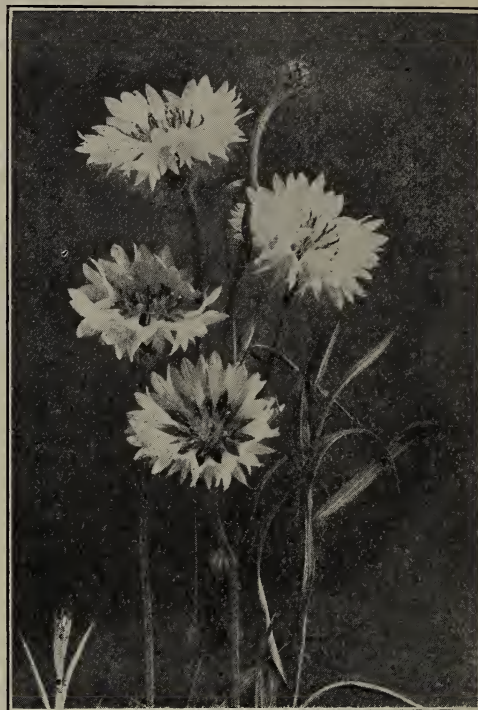
Bartonia Aurea (Golden Bartonia); h. a.; 2-feet tall; is a native of California. Bright yellow single flowers, 2-inches across. Sow the seed where the plants are to remain, since it does not transplant easily. Pkt. 10c.

Bellis Perennis (Double Daisy.) Often called English Daisy. This daisy makes a fine border and is often seen dotted in a grass lawn; h. p.; six inches.

Extra Double White or Snowball. A clear white variety. Pkt. 10c; 1-8 oz. 50c.

Longfellow. Double dark rose. Pkt. 10c; 1-8 oz. 50c.

Extra Double. Mixed. Pkt. 10c; 1-8 oz. 50c.



Centaurea Cyanus (Cornflower)

Centaurea Other popular names, Bachelor's Buttons, Bluets, Ragged Sailor, Bluebottle. Extremely showy in the garden and fine for cutting. They are easy to grow, take care of themselves, bloom continuously, and even come up again the next year from the seed that has dropped in the ground. (See engraving.)

Double Blue. A selection of the old-fashioned blue variety with larger and very double flowers of true blue color. Finest for cutting. Pkt. 10c; oz. 40c.

Single Blue. Pkt. 5c; oz. 35c.

Calendula (Pot Marigold.) Very hardy annual, one foot high, blooming freely at any time of year, including winter, and for several months. Is of the easiest culture and is desirable for rather inferior soils, where less sturdy flowers do not thrive.

Meteor. Large double bright yellow flowers, striped with orange. Pkt. 10c; oz. 35c.

Prince of Orange. A fine deep orange; double. Pkt. 10c; oz. 35c.

Candytuft Very fragrant; valuable for the border, massing, or cutting. 1 foot high.

Giant White Hyacinth-Flowered. Immense trusses, frequently 6 inches in length. The largest of all bedding. Pkt. 5c; oz. 35c.

Empress. Pure white; very large. Pkt. 10c; oz. 50c.

WILD FLOWER GARDEN

May be had in any out-of-the-way place or back lot by sowing Williams' special mixture of Wild Flower Seeds. Sow at rate of 1-oz. to every 100 square feet. Oz. 15c; ¼-lb. 50c; lb. \$1.50; postpaid.

CANTERBURY BELLS

Campanula Medium A hardy biennial, blooming the second year from seed. or the first year, if sown early. Easily grown and preferring rich, moist soil. Grows about three feet high and bears double and single varieties of blue, white, purple and red flowers. Double Mixed, pkt. 10c; 3 pkts, 25c.

Canna Mixture of the popular varieties. Flowers in red, yellow, and all plants have large ornamental leaves and give a tropical effect. Mixed, pkt. 10c.

Carnations MARGUERITE. An extra vigorous race. Especially adapted for out-of-door culture. The plants are trim in habit, perpetual, and flower abundantly in five months from sowing the seed. Marguerite Carnations are highly fragrant, and have beautiful double flowers. Mixed. Pkt. 10c; ½ oz. 75c.

Celosia Cristata or COCKSCOMB. A half hardy annual, growing six to eight inches high, bearing a wide, wavy blossom that resembles a cock's comb. In brilliant colors and fine for massing or border work.

DWARF MIXED. Several shades of red and yellow, mixed. Pkt. 10c; 3 pkts. 25c.

CELOSIA PLUMOSIS, or Feathered Cockscumb. The plumes are splendid on 2 to 3 ft. tall. Colors bright red and bright yellow. Mixed. Pkt. 10c; 3 pkts. 25c.

Chrysanthemum The coronarium varieties are dwarf selected strains of compact habit and with fine double flowers. They are most valuable border and bedding plants, and provide large quantities of cut bloom during the summer. Coronarium, Double Mixed, Pkt. 5c; ¼-oz. 25c.

Calliopsis An "old-fashioned" flower and a general favorite. It grows about 3 feet high and is fine for cutting and some sorts for bedding. h. a. Blossoms single and about two to four inches in diameter.

Mixed. A gorgeous mixture of golden yellow, brown, maroon and other shades. Pkt. 10c; oz. 30c.

Cineraria One of the most useful and ornamental of greenhouse plants; with flowers of the richest and most brilliant colors and shades, and of the finest texture. For succession, make sowings of the seed from May to September, but the main sowings in July. Very fine plants for conservatory and house decoration. Average height, two feet.

Prize Mixed. Magnificent strain, Pkt. 25c.

Clarkia Elegans A mighty handsome annual, which should be far more widely known. It is of easy cultivation, graceful in habit of growth, and lends itself as well to bedding as for cutting. The flowers are borne all along the stems and resemble carnations to quite an extent. 1 ft. July to October.

Double Finest Mixed, Pkt. 10c; oz. 25c.

Cobea Scandens A half hardy climbing perennial, with large leaves and large bell-shaped flowers. Blossom is green until nearly grown, when it turns bright-purplish blue. Grows about 30 feet long, and is very desirable for covering a large lattice. A native of Mexico. Pkt. 10c; 3 pkts. 25c.

Wild Garden Flower Seeds Mixed A charming mixture of wild flower seeds; can be sown in any situation and they will produce a most natural effect. Oz. 15c; ¼-lb. 50c; lb. \$1.50; postpaid.

GENTLEMEN:

The seeds I bought from you the past few years have all grown very satisfactory. With best wishes.
Yours very truly,

R. F. D. 1

G. W. KELLER,
Norfolk, Va.

THOUSANDS OF TESTIMONIALS

Every year we receive thousands of letters from satisfied customers but regret that space in this book does not permit our publishing all of them. These letters come from every state and tell of the wonderful results obtained with WILLIAMS' SEEDS. We are always glad to receive letters or photos of gardens showing how successfully our seeds grow.



Dianthus or Pinks.

DIANTHUS
(China Pinks)

Plumarius (Grass Pink, Pheasant Eye or Scotch Pink.) A single hardy perennial pink with light colored flowers, with a darker center; various colored. The old-fashioned garden favorite. This makes a fine border or flowering bed. Constantly in bloom. (See engraving.) Pkt. 10c; ¼-oz. 25c.

CHINENSIS (China or India Pink). Double mixed; Pkt. 10c; ½-oz. 35c.

HEDDEWIGI (Japanese Pink). Finest single mixed, Pkt. 10c.

GIANT COSMOS

The Glory of the Autumn Garden

Favorite autumn-flowering annual; the flowers are often four inches across. The petals are broad and overlapping and of splendid substance. For cutting this is one of the finest flowers grown. The long stems and feathery

Giant Cosmos, Mixed Colors.....Pkt. 5c; ¼-oz. 25c.
Giant White Cosmos.....Pkt. 5c; ¼-oz. 25c.
Giant Pink Cosmos.....Pkt. 5c; ¼-oz. 25c.
Giant Crimson Cosmos.....Pkt. 5c; ¼-oz. 25c.

Williams' Virginia Queen Giant Cosmos

Grand new variety surpassing any other yet produced. Charming large white flowers. See colored photo, back cover. Pkt. 15c; 2 pkts. 25c.

Convolvulus (Morning Glory). These well-known favorites ought to be in every garden. Nothing can be finer for color than a bed of these.

DWARF BEDDING VARIETIES. Mixed. Pkt. 5c; oz. 20c.

TALL or CLIMBING VARIETIES. Mixed. Pkt. 5c; oz. 20c.

Our "BEAUTIFUL BOOK ON BULBS" will be ready in August, send your name now to make sure of your copy.



Dwarf Nasturtium; Mixed

NASTURTIUMS

These Grand Bedding Nasturtiums have flowers often measuring three inches across, in a great variety of new and charming combinations of colors, while the brilliancy and velvety richness of the self-colored sorts have been greatly enhanced. For summer flower-beds nothing can surpass them; the plants form perfect mounds about one foot high by one foot across. Seed sown in the open ground in the spring will produce plants that commence blooming during early summer and continue until frost. (See engraving.)

Williams' Special Mammoth Flowering Dwarf Nasturtiums, Mixed These wonderful new Nasturtiums produce flowers twice the size of the old time dwarf mixed. See colored photo on back cover. Pkt. 10c; oz. 15c; ¼-lb. 40c.

KING OF TOM THUMB. Dark scarlet; dark foliage. Pkt. 10c; oz. 20c.

AURORA. Flowers light reddish orange, veined with carmine. Pkt. 10c; oz. 20c.

DWARF, Mixed. A mixture of named sorts. Pkt. 5c; oz. 10c; ¼-lb. 30c.

TALL OR CLIMBING VARIETIES

Williams' Special Mammoth Flowering Climbing Nasturtiums, Mixed The largest flowers of any climbing Nasturtium yet on the market. Pkt. 10c. oz. 15c; ¼-lb. 40c.

KING THEODORE. Deep crimson-maroon, dark foliage. Pkt. 10c; oz. 20c.

TWILIGHT. Chamois-yellow, shaded salmon-rose and splashed scarlet. Pkt. 10c; oz. 20c.

VESUVIUS. Salmony rose; an exquisite shade. Pkt. 10c; oz. 20c.

CLIMBING NASTURTIUMS. Mixed Colors. Pkt. 5c; oz. 10c; ¼-lb. 30c.

DAHLIA

A favorite for autumn flowering, blooming the first season from seed if started early. The flowers are so symmetrical and perfect and the range of colors so wide and varied that they will always be popular where display is wanted.

FINEST DOUBLE MIXED. Seeds saved from choicest double flowers, including shades of red, pink, dark maroon, yellow, white etc. Pkt. 15c; 2 pkts. 25c.

FINEST SINGLE MIXED. Will produce brilliant flowers running through a wide range of striking colors. Oz. 50c; Pkt. 10c; 3 Pkts. 25c.

For Dahlia Roots, see Page 53.

Dimorphoteca Aurantiaca This showy annual with bright orange-yellow flowers, is sometimes called African "Golden-Orange" Daisy. Plants somewhat spreading, with finely cut foliage, producing abundantly on stems of good length glossy, single daisy-like blossoms about two and one-half inches across. Pkt. 10c; 3 Pkts. 25c.

Eschscholtzia (California Poppies). Fully as valuable as the common Poppy for garden ornamentation since the flowers are in bloom through a much longer season. A bed in full bloom of these large saucer-shaped flowers in various shades of yellow with orange center gives a brilliant color effect. The foliage is finely cut and has a bluish tinge or bloom, delicate and very attractive.

CALIFORNIA. (California Poppy). The true golden yellow strain. This is the state flower of California and is a desirable addition to every garden. Oz. 50c; Pkt. 10c.

MIXED. An excellent mixture producing deep yellow, creamy white, scarlet and orange flowers. Oz. 50c; Pkt. 10c.

FORGET - ME - NOT

(Myosotis). This is a favorite old fashioned flower, bearing in profusion, especially in fall and spring, clusters of dainty blue five-petted blossoms. It thrives well in the shade or open border but flourishes best in a moist, shady situation.

ALPESTRIS. Plants of compact, husky habit with finely cut foliage, growing six to eight inches high. Flowers blue with a very small yellowish eye. Pkt. 10c; 3 Pkts. 25c.

FOXGLOVE

(Digitalis.) Stately, old fashioned border plants, affording dense spikes of large brilliantly colored flowers, which are terminal and half as long as the height of the plant. The flowers are very distinct and showy, being thimble-like or long bell-shaped, and the colors include white, lavender and rose, many being spotted or blotched. It is often used as a background, and does especially well in cool, shady locations in front of shrubbery. The leaves are wrinkled and somewhat downy.

FINE MIXED. Many shades and markings. Pkt. 5c.

MAMMOTH FOXGLOVE. (Digitalis monstrosa). Remarkably odd; each flower spike surmounted with a very large bell-shaped flower. Mixed colors. Pkt. 15c; 2 Pkts. 25c.

Gaillardia A very showy garden plant, with brilliant flowers, in scarlet and yellow, blended and shaded. Blooms freely from early summer till autumn. Grows one and one-half to two feet high, and the blossoms are borne on long, slender stems. Both single and double varieties are hardy.

Fine single mixed annual. Pkt. 10c; 3 Pkts. 25c.

Double mixed, annual (Picta Lorenziana). Pkt. 10c; 3 Pkts. 25c.

Godetia A hardy annual, growing from six inches to ten inches high. Of compact growth, with a profusion of satiny cup-shaped flowers, in deep red, pink and white, shaded and blended. Valuable for bedding or massing. Sow seed early in the year. Finest varieties. Mixed. Pkt. 10c; oz. 50c.

Wild Flower Seeds Mixed

A charming mixture of wild flower seeds; can be sown in any situation and they will produce a most natural effect. Scatter the seed broadcast and rake in, at the rate of 1-oz. to every 100 square feet. Oz. 15c; ¼-lb. 50c; lb. \$1.50; postpaid.

ORNAMENTAL GOURDS

Favorite annual climbers, of rapid growth, having luxuriant foliage and being immune from insect pests. They bear fruits known as "Ornamental Gourds"; vine 20 to 30 feet. Mixed ornamental varieties... Small sorts. Pkt. 10c; 3 Pkts 25 cents.

Gypsophila (BABY'S BREATH). Delicate, free-flowering plants covered with star-shaped flowers, valuable for mist-like effects and as trimming in bouquets.

ELEGANS LARGE FLOWERING PURE WHITE. An improved large-flowering strain, superior to the common Elegans not only in size of flowers but also in color. Pkt. 5c; oz. 25c.

ELEGANS, MIXED. Very small, delicate white and rose-pink flowers. Hardy annual; one foot high; Pkt. 5c.

PINK (ELEGANS ROSEA.) A beautiful soft pink. Pkt. 10c; 3 Pkts. 25c.

Helichrysum Straw-Flower. Pretty everlasting flowers in beautiful colors and many soft and artistic shades. Splendid for winter bouquets. To preserve them, cut the flowers before they are fully expanded, and hang in a dry place.

DOUBLE FIREBALL. Deep crimson. Pkt. 10c.

DOUBLE VIOLET QUEEN. Violet; very hardy. Pkt. 10c.

DOUBLE MIXED. All colors. Pkt. 10c; 3 Pkts. 25c.

HELIOTROPE

Well-known and much admired border and bedding plants, highly valued for the blue color and fragrance of their branching clusters of small salver-shaped flowers as well as the duration of their bloom. Dark Varieties Mixed... Very choice. Pkt. 10c; 3 Pkts. 25c.

Hollyhock Some grow to the top of the second story window and in some gardens they only grow 8-10 feet tall. The double ones are usually about 6 feet tall. Hollyhocks were in all the old gardens. Nothing makes a better boundary. Our doubles are very fine indeed; hardy, perennial.

DOUBLE VARIETIES. Mixed, pkt. 10c; 3 pkts. 25c.

SINGLE VARIETIES. Mixed. The old-fashioned blossoms in all colors. Pkt. 10c; ½-oz. 35c.

Honesty (Moonwort, Satin Flower.) Hardy biennials, admired for its silvery seed pouches, which are used for house ornaments, as they present a beautiful and rather curious appearance; 2 feet. Pkt. 5c.

Kochia (SUMMER CYPRESS). A remarkable annual, producing dense, rounded plants with fine green leaves and growing to a height of three feet. The foliage changes to a reddish shade towards Fall. Fine for a hedge or to outline the garden. Pkt. 5c; ½-oz. 25c.

Linum GRANDIFLORUM RUBRUM. (Scarlet Flax.) An attractive free-flowering bedding plant with slender foliage and bearing on delicate stems clusters of glossy bright red single flowers, saucer-shaped, with black center. Hardy annual; about one and one-half feet high. Pkt. 5; oz. 25 cents.

Annual Larkspur Quick-growing, free-flowering annuals, producing stiffly erect spikes of beautiful flowers in profusion. They are strictly annuals.

TALL BRANCHING MIXED. Pkt. 10c.

DWARF ROCKET. Mixed Colors; 1 foot high. Pkt. 10c.

DELPHINIUM. (Hardy Perennial Larkspur.) Formosum, deep blue, white centre. Pkt. 10c.

SINGLE HYBRIDS, Finest Mixed Colors. Pkt. 10c; 3 Pkts. 25c.

Lobelia CRYSTAL PALACE (Speciosa.) An exceptionally graceful sort and one of the best in color, having bright deep blue flowers; very dark green foliage. Pkt. 10c; 3 pkts. 25c.

Lupins are among the most useful of our garden flowers. Easily and quickly grown; sow the seed where you want them to grow.

FINEST MIXED. Pkt. 10c; oz. 25c.

PERENNIAL HYBRIDS, MIXED. Flowers ranging from pure white to golden yellow, and from palest mauve to richest purple, and in all shades of rose and pink. Pkt. 10c; 3 pkts. 25c.



Williams' Rainbow Pansies.

SUPERB PANSIES

All our Pansy seed is obtained from the most noted Pansy specialists. Pansies thrive best in a moist, shady location and in rich, loamy soil. Seed should be sown in the autumn for early spring blossoms, or can be sown in the year for good flowers late in the spring. The plants must be transplanted twice in order to get the largest flowers; once from the seed box to a chosen bed, and again to the open garden. This is important for large-size pansies; use manure liberally.

Williams' Rainbow Pansies These exquisite pansies are the result of years of scientific culture, hybridization and selection in raising Pansies have gradually evolved a superior race of luxuriant, robust growth and deep-rooting, drought-withstanding qualities; the flowers have also correspondingly improved in size, substance, form and colors. (See engraving.)

RAINBOW MIXTURE. Pkt. 15c; 2 pkts. 25c; ¼-oz. \$1.00.

KING OF THE BLACKS OR FAUST; black. Pkt. 10c.

LORD BEACONSFIELD; deep violet blue on lower petals, shading to azure on the upper petals, Pkt. 10c.

FAIRY QUEEN; blue with azure margin. Pkt. 10c.

White, with black center, Pkt. 10c.

One packet each, 4 varieties, 30c.

TRIMARDEAU. Giant Mixture. Pkt. 10c; ¼-oz. 50c.

I take pleasure in advising you that all the flower seeds I had from your firm last season proved very satisfactory.

(Rev'd.) A. L. SEITER,

Meadowbrook, Norfolk.

Thousands of Testimonials.

We have thousands of letters from our flower seed customers telling us of the wonderful results obtained with our seeds. We regret space in this book does not permit publishing all of them.

Ask for a copy of our free leaflet on "GROWING PERENNIAL FLOWERS" to be included with your order

MARIGOLDS

African Marigolds These grand African Marigolds produce densely double flowers, 8 to 10 inches in circumference, and of the regularity and perfection of a Dahlia.

AFRICAN DOUBLE, Mixed. 2 to 3 feet high; large double flowers of yellow or orange. Pkt. 5c; oz. 40c.

French Marigolds French Double Dwarf, Mixed Colors. Of compact, dwarf, growth, 1 foot high, with double quilled flowers of maroon, yellow, striped, etc. Pkt. 5c; oz. 40c.

MIGNONETTE

(RESEDA). A well known hardy annual producing dense cone-shaped flower-spikes, made up of thickly set flowerets of modest colors, and pleasing fragrance.

MACHET. Of dwarf and vigorous growth, with numerous stout flower stalks, terminated by large spikes of red flowers. This is one of the very best for pot culture. Pkt. 10c; oz. 35c.

RESEDA ODORATA GRANDIFLORA (Sweet). Large flowered, very sweet; light yellowish white. Pkt. 5c; oz. 20c.

Matricaria Eximia Grandiflora, fl. pl. (Double Feverfew). Beautiful small white button-like flower-heads. Plants of bushy growth, with very finely cut dark green foliage; desirable for bedding. Pkt. 10c.

Marvel of Peru, or Four O'Clocks A well known handsome, free-flowering garden favorite; does well everywhere; give each plant 12 to 18 inches of room. Fine mixed colors; 2 feet. Pkt. 10c; oz. 20c.

Mimulus Moschatus. (Musk Plant). $\frac{1}{2}$ foot; fragrant foliage; yellow flowers. Pkt. 10c.

Nemesia Plant these if you have never done so before. Take our advice. Nemesias come 1 foot high and are a mass of flowers, bedding annual.

TRIUMPH MIXED. This has flowers in light blue, red, yellow and terra cotta. Compact form. Pkt. 15c; 2 pkts. 25 cents.

Nemophila, or Love Grass A hardy annual California wild flower, growing about six inches high. Has small cup-shaped blossoms about one inch in diameter.

INSIGNIS (Baby Blue Eyes). Its flowers are of a most beautiful light blue, shading lighter toward the center. A pretty wild flower. Pkt. 5c; oz. 25c.

Nicotiana, or Flowering Tobacco A half-hardy annual, growing 3 feet high, with slender tubular flower. Belongs to the tobacco family. Requires plenty of room in the garden.

AFFINIS. White and very fragrant. Flowers open in evening and cloudy days. Pkt. 10c; 3 pkts. 25c.

Nigella, or Love-in-a-Mist A hardy annual, one foot high, with finely cut foliage. Oddly shaped blossoms in blue and white, and curious seed pods. Of easy culture. Dhamascena. Pkt. 10c; 3 pkts. 25c.

Beautiful Wild Flower Garden, for 15c.

We can recommend this charming mixture of wild flower seeds. They can be sown in any soil and will grow wonderfully. Sow in any out of the way place—meadow, brookside, hedge-row, fence-corner or back lot. Scatter the seed broadcast and rake in at the rate of 1 oz. to every 100 square feet. Price 1 oz. 15c; $\frac{1}{4}$ -lb. 50c; lb. \$1.50; postpaid.

Free Flower Seeds.

If your order for FLOWER SEEDS amounts to \$1.00 or over you may select free flower seeds to the value of 25 cents.



Phlox Drummondii, Mixed Colors.

PHLOX DRUMONDII

Phlox Drummondii Grandiflora. One of the most satisfactory bedding plants, because it blossoms over so long a time. A hardy annual, growing from six inches to one foot high, and bearing beautiful and brilliantly colored flowers. (See Engraving.)

CHOICEST MIXED, Large Flowering. Contains all of the colors, and makes very showy bed or border. Pkt. 10c; $\frac{1}{2}$ -oz. 25c.

Giant Single Petunias A strain of incomparable beauty and size. Most of the flowers are exquisitely ruffled or fringed on the edges, and all are of enormous dimensions, 4 to 5 inches across, but their great merits lie in the tremendous variety of colors, shades and markings, in most beautiful combinations. Some colors are rich and gorgeous and others of lovely delicate shades. (See engraving, page 42.)

MIRANDA. Rosy-red, with scarlet throat. Pkt. 20c.

FIMBRIATA ALBA. White, with yellow throat. Pkt. 20c.

TITANIA. Royal-purple, edged white. Pkt. 20c

BRILLIANT ROSE. Large flowers of very bright, yet delicate and exceptionally attractive rose color. Pkt. 20c.

LARGE FLOWERED MIXED. Plants vigorous and flowers very large; some striped, others self-colored. Pkt. 10c; 3 pkts. 25c; $\frac{1}{2}$ -oz. 75c.

Portulaca Creeping tender annual, six to eight inches high, and bearing glossy, cup-shaped blossoms in very brilliant colors. The foliage and stems are thick.

SINGLE MIXED, Pkt. 10c; oz. 50c.

DOUBLE MIXED; large flowering; pkt. 10c; 3 pkts. 25c.

Pyrethrum Parthenifolium Aureum, or Golden Feather. Small-cut leaves of bright golden yellow. A hardy perennial, with bright foliage, much used for edging and borders. Pkt. 10c; 3 pkts. 25c.

Dear Sirs:—

Last season I purchased some flower seeds from you and wish to advise you the wonderful results obtained. Your seeds grew far better than some I purchased in the north.

Yours truly,

MRS. PAUL MATHIS,
Elmhurst, New York.

We carry a complete line of flower seeds and customers desiring any special varieties that may not be listed in this book can send their order in and it will be filled satisfactory

Williams' New Lorraine Poppies

(See Photo on Outside Back Cover)

A great advance has been made in the Poppy world by the introduction of the unique free blooming Lorraine Poppies. The flowers are immense, often 4 inches across, the petals are fluted and crinkled and in the sunlight appear like rumpled satin. The plants are well branched, about 12 inches high, and bloom in continuous succession for weeks. There are white, white-splashed crimson, rose banded with white, salmon, carmine, bluish, scarlet, and many splashed, striped, dotted, edged, etc. If cut in the bud state and the stems put in water, the flowers will open as well as on the plant, and the effect of a vase of Lorraine Poppies is immensely graceful and beautiful. (See photo back cover.) Lorraine Single Mix-
ture, 15c per pkt., 2 pkts. for 25c.

Double "Featherball" Poppies These double-fringed annual Poppies are very beautiful; they belong to the Carnation-flowered type, the large flowers having the same globe-shaped formation, with gracefully fringed-edged petals like big balls of slashed tissue paper or feathers; plants of dwarf branching growth only 15 to 18 inches high, each plant carrying several of these large exquisite flowers.

Mixed colors-----Per oz. 25c; Pkt. 10c.

GLAUCUM, (The Scarlet Tulip Poppy.) Beautiful large Tulip-shaped flowers of brilliant scarlet. 1 foot. Pkt. 10c; ½-oz. 25c.

SINGLE MIXED. Including all varieties and colors. Pkt. 5c; oz. 25c.

Perennial Poppies Hardy perennial, of easy culture; in bright, glowing colors. Blooms first year from seed.

ICELAND, Mixed. A graceful, delicate variety, 12 inches tall, with white, orange and yellow single blossoms, the petals resembling crumpled tissue paper. The plant is low and compact; excellent for cutting. Sow in the fall where plants are to remain and thin. Pkt. 10c; 3 pkts. 25c.

ORIENTALE (the large Oriental Poppy.) A hardy plant, bearing large brilliant crimson flowers, with a black blotch on each petal. Very showy and attractive; two and one-half feet tall. Pkt. 10c; 3 pkts. 25c.

HARDY PRIMROSES

Auricula Beautiful low-growing, early spring flowering plants, fine for borders, pot culture, etc.; the fragrant flowers of many rich colors are borne in clusters on the top of stalks 4 to 6 inches long. Pkt. 10c; 3 pkts. 25c.

Cowslip (Primula Veris). This beautiful spring-flowering dwarf hardy perennial bears clusters of fragrant flowers of various colors; height, 6 inches. Pkt. 10c; 3 pkts. 25c.



Verbenas, Mammoth Mixed



Salvia, or Scarlet Sage.

SALVIA

One of our most handsome summer and autumn-flowering plants, growing into compact bushes about 3 feet high and literally ablaze with brilliant flowers; very effective for massing on the lawn and for garden decorations. Half-hardy perennial. (See engraving.)

SPLENDENS. Bright scarlet flowers. Pkt. 10c; 1-8 oz. 35c.

BONFIRE. A new dwarf Scarlet Sage, of dense compact growth, from 20 to 24 inches high; useful for bedding or borders. Flowers dark scarlet, on spikes which stand clear of the foliage and attract attention at once. Pkt. 15c; 2 pkts. 25c.

VERBENA

A half-hardy trailing perennial of easy culture. While it grows readily from division of the root or from cutting, it does best from seed. Use extra care in starting as seed is rather difficult to start well. Seed may be soaked in warm water to hasten germination. It is well known as a bedding or border plant, and the improved large flowered and fragrant strains make it a handsome cut flower for low vases. (See engraving.)

Extra Selected Mammoth Strain. Mixed. Pkt. 10c; 3 pkts. 25 cents.

Pink Shades. Mammoth strains of rose and pink shades. Pkt. 10 cents.

Pure White. Mammoth strain. Pkt. 10c.

Purple and Blue Shades. Mammoth strains. Pkt. 10c.

Scarlet Defiance. Brilliant scarlet. Pkt. 10c.

Striped Varieties. Mixed. Pkt. 10c.

Any three ten cent packages for 25c.

Rhodanthé One of the most beautiful everlastings. Sometimes called Straw Flower. The flower-heads are somewhat bell-shaped, becoming when mature, fully expanded and sometimes reflexed. They are gracefully poised on slender stems. Tender annual; one and one-half to two feet high. Mixed. Pkt. 10c; 3 pkts. 25c.

FREE FLOWER SEEDS. If your flower seed order amounts to one dollar or over you may select free flower seeds to value of 25c.

SALPIGLOSSIS

Painted Tongue Wonderfully showy, with flowers of exquisite colors and color-markings. Flowers are funnel-shaped, not unlike those of the petunia, deep-throated, and charmingly penciled and veined in rich shades of yellow, crimson, and purple. Salpiglossis flowers freely from July until frost.

FINEST MIXED. Pkt. 10c; 3 pkts. 25c.

SCABIOSA

Scabiosa, or Mourning Bride Also called Sweet Scabious, Old Maid's Pincushion, etc. Our mammoth flowered strain of this old-fashioned flower is very beautiful and worthy of a place in every garden. The tall flowers are especially adapted for cutting and massing in the garden. Annual, 2½ to 4 feet high. These new flowers are double clear to the center, covering the thimble-shaped cone.

Royal Purple.....	Pkt. 10c.
Snowball. Pure white.....	Pkt. 10c.
Finest Mixed colors.....	Pkt. 10c.
Fiery-scarlet.....	Pkt. 10c.
Azure Fairy. Light blue.....	Pkt. 10c.
Cerise. Lovely Cerise-red.....	Pkt. 10c.

Customer's Selection of Scabiosa—any three 10c. pkts for 25c.

CAUCASICA ALBA. A large, pure white variety; counterpart of the above; beautiful; the flowers, 3 to 4 inches across, on long stems, are exquisite for vases, lasting a long time in water and they are borne freely like those of its blue-colored parent from early summer to late fall. Pkt. 15c; 2 pkts. 25c.

JAPONICA, h. p.; 2½ feet; beautiful artistic lavender blue single flowers. Pkt. 15c; 2 pkts. 25c.

Schizanthus Hardy annuals, growing 1½ to 2 feet high, and covered with bright, showy, butterfly-like blossoms. Large flowering. Mixed. Pkt. 10c; 3 pkts. 25c.

WISTONENSIS. This variety is remarkably free-flowering and presents a beautiful appearance with its myriads of blooms, the ground color of which is white, dotted with delicate rose. A very shy seeder. Make several plantings, as the plants come into bloom quickly, are a burst of color and are out of bloom. Pkt. 20c.

STOCKS

Ten Weeks Stocks, or Gilliflowers

No matter if situation is cold and windy, Stocks will bloom there, and give the garden color when otherwise it might be bare. They come in all shades—delicate pink, white, red, cream and purple. Stocks are annual and hardy; they may be sown out of doors in spring, or in boxes in winter and transplanted. Sow early one-eighth inch deep.

Summer Stocks

DWARF LARGE FLOWERING TEN WEEKS: Our strain of these has great rosettes set closely together so that the entire plant is hidden in the mass of bloom. Plants 12 to 15 inches tall and early; the best for bedding effects or edges. Ours is a selected strain.

Blood Red, pkt. 15c. Light Blue, pkt. 15c. White, pkt. 15c. Canary Yellow, Chamois Pink, pkt. 15c. Purple, pkt. 15c. Mixed, pkt. 10c.

Collection of six sorts for 70c.

Nice Stocks for Summer and Winter

Tall stocks nicely branching, having large double flowers, not tightly clustered but borne along the entire stem. Sow in July and August and they will flower all winter. There are many new varieties in this class. May be treated as summer stocks, for they bloom quite early from seed; two feet; h. b.

Almond Blossom. Blush pink, shaded deeper. Pkt. 15c. Beauty of Nice. A beautiful flesh pink. Pkt. 15c. Crimson King. Splendid crimson color. Pkt. 15c. Mont Blanc. Improved pure white. Pkt. 15c. Nice Purple. Purple or violet color. Pkt. 15c. Nice Stocks Mixed, pkt. 10c; 3 pkts. 25c.

Virginia Stocks An early-flowering annual largely grown for edging effects to borders. The plants are six inches in height and bloom continuously during cool weather.

Finest Mixed. Pkt. 5c; oz. 25c.



Zinnia, Double Mixed.

SUNFLOWER

Very hardy annual plants; grown everywhere. Double California—Handsome, extremely double flowers. Pkt. 5c; ½-oz. 15c.

Chrysanthemum Flowered—A fine variety, double and of vigorous growth. Pkt. 5c; ½-oz. 10c.

Mammoth Russian—Single, immense flowers; very showy; eight feet. Pkt. 05c; oz. 10c.

ZINNIA

A half-hardy annual, growing from 1 to 2 feet high. Blossoms are very double, and while the stems are stiff they make an excellent bouquet flower. Probably no flower has such an assortment of bright shades, tints and colors: no bedding plant is more effective for a brilliant show. Sow in boxes early and transplant. (See engraving.)

Elegans Double. White, pkt. 10c. Black Purple, pkt. 10c. Yellow, pkt. 10c. Flesh, pkt. 10c. Mixed. All colors. Pkt. 10c; Scarlet. Very bright. Pkt. 10c. 3 pkts. 25c. Collection of 5 colors for 40c.

Williams' Pride of Norfolk Double Zinnias

(See photo back cover). These grand new Giant Zinnias are the latest introduction. The flowers are immense, over six inches across and densely double of the most charming scarlet color. Plants of strong growth, 3 feet high. See photo. back cover. Pkt. 15c; 2 pkts. 25c.

Violas, or Tufted Pansies These have smaller flowers than the regular pansies, but bear them so profusely that they are preferred for bedding effects where color only is wanted; h. h. p. Mixed, all varieties, pkt. 10c; 3 pkts. 25c.

Sweet William (Dianthus Barbatus). A beautiful sweet scented old-fashioned perennial. Grows 1 to 2 feet high and bears its flowers in clusters at the end of a stiff stem. The individual flowerets are handsomely colored and marked. It makes a beautiful bedding plant, and is of easy culture; h. p.

SINGLE VARIETIES. Mixed. More attractive than the double. Pkt. 10c; 3 pkts. 25c.

DOUBLE VARIETIES. Mixed. Pkt. 15c; 2 pkts. 25c.

SPECIAL OFFER. Your choice any 3 ten cent PACKAGES of flower seeds for 25c postpaid.

Williams Famous Giant Waved Spencer Sweet Peas

Culture Ordinary good garden soil is suitable for Sweet Peas. The ground should be well drained to avoid water lying too long and becoming sour. Soil prepared for vegetables produces fair results, but a little more care will repay the planter. Select for a location in your garden a place open and airy and which receives the sun all day. Seed should be sown in trenches about 4 inches deep and covered to a depth of 2 inches, still allowing the center of the trench to remain at least 2 inches below the level of the ground, that water may be retained. In case of dry weather, constant watering is necessary to keep the roots cool. When the vines are up about 6 inches high, staking with brush or trellis should be attended to at once. One ounce of seed is sufficient to plant 20 feet of drill.

GIANT SPENCER AND ORCHID-FLOWERING MIXTURE

In offering our Giant Spencer and Orchid-flowering Mixture of Sweet Peas, we are undoubtedly giving the public the choicest assortment of varieties obtainable. The varieties included in this Mixture will produce from three to four flowers on a stem, the blooms being far superior to the original Grandiflora type previously used. Beautifully waved and fluted with long stems, varying from 8 to 17 inches in length. Pkt. 10c; oz. 20c; ¼-lb. 50c; lb. \$2.00; postpaid.

Ask for a copy of our leaflet on "Sweet Pea Culture" to be included with your order.

NAMED VARIETIES

All large, waved, with three or four flowers to a stem.

Agricola A very pleasing shade of lilac-blush; generally four flowers on a stem; of fine Spencer form, and exceedingly large. Pkt. 10c; oz. 30c.

Asta Ohn Beautiful clear lavender, very large. Pkt. 10c; oz. 30c.

Blanche Ferry Spencer Pink and white. Pkt. 10c; oz. 35c.

Countess Spencer Re-selected, clear pink. Pkt. 10c; oz. 35 cents.

Elfrida Pearson A lovely pale pink. Pkt. 10c; oz. 35 cents.

Etta Dyke A superior strain of "White Spencer"; larger, whiter and better frilled. Pkt. 10c; oz. 35 cents.

King White Pure white. Pkt. 10 cents; oz. 25 cents.

Loyalty The finest and largest blue striped; color white flaked and marbled bright blue. Pkt. 10c; oz. 30 cents.

Margaret Atlee A particularly fine variety of the duplex type; flowers of extraordinary size. The color is an exquisite shade of salmon pink perfectly suffused over a cream ground, the shade of pink being quite different from any yet seen. Pkt. 10c; oz. 35c.



Giant Spencer Sweet Peas, Mixed

Martha Washington Ground pure white, edges heavily picoteed with deep rose, flowers large and beautifully waved. Pkt. 10c; oz. 33 cents.

Mrs. Routzahn A favorite "cream-pink"; a blending of straw color, tinted blush-pink and rosy-apricot. Pkt. 10c; oz. 30c.

Vermillion Brilliant A most brilliant iridescent scarlet, with flowers of perfect form and uniform color; standards and wings well waved and fluted. Pkt. 10c; oz. 30c.

Florence Nightingale Best soft lavender. Pkt. 10c; oz. 35 cents.

King Edward Spencer Rich crimson-scarlet; large open, waved flowers. Pkt. 10 cents; oz. 35 cents.

Sweet Peas Grandiflora Varieties. Mixed. Pkt. 5c; oz. 10c; ¼-lb. 35c; lb. \$1.15.

NEW EARLY FLOWERING SPENCER SWEET PEAS

Bloom four weeks earlier than the late Spencers, and under congenial conditions flower continuously for four months. Producing profusely, immense, waved flowers. "Fours" Predominating on long stems.

Early Snowflake Pure white and the best white early flowering white seeded Spencer in existence. Pkt. 15c; oz. 50c.

Early Morning Star Deep orange-scarlet or flame color with rich orange-pink wings. Pkt. 15c; oz. 50c.

Early Spring Maid An exquisite light cream-pink that is soft pink over a cream ground color. Pkt. 15c; oz. 50c.

Early Heather Bell A rich pleasing mauve-lavender. Pkt. 15c; oz. 50c.

Yarrawa (Originator's strain.) This world-famous variety was the original Australian Early Flowering Spencer Strain of Sweet Peas, and in its color it is absolutely the best Early Flowering variety yet sent out. It is of the largest size and great substance, it bears three and sometimes four flowers on splendid long stems and is most delicately tinted, the standard being a deep rose-pink and the wings soft blush-pink. Pkt. 10c; oz. 50c; ¼-lb. \$1.50.

Your choice any 3 ten cent packages of SWEET PEAS for 25c, postpaid.

Summer Flowering Bulbs

WILLIAMS' SPECIAL RAINBOW MIXTURE OF GLADIOLUS

This famous mixture of Gladiolus Bulbs well deserve the name of rainbow. It is a well blended combination of all the choice named varieties and is far superior to the ordinary mixtures generally sold. (See engraving.) Mammoth Bulbs, 45c per doz; \$3.50 per 100, postpaid.

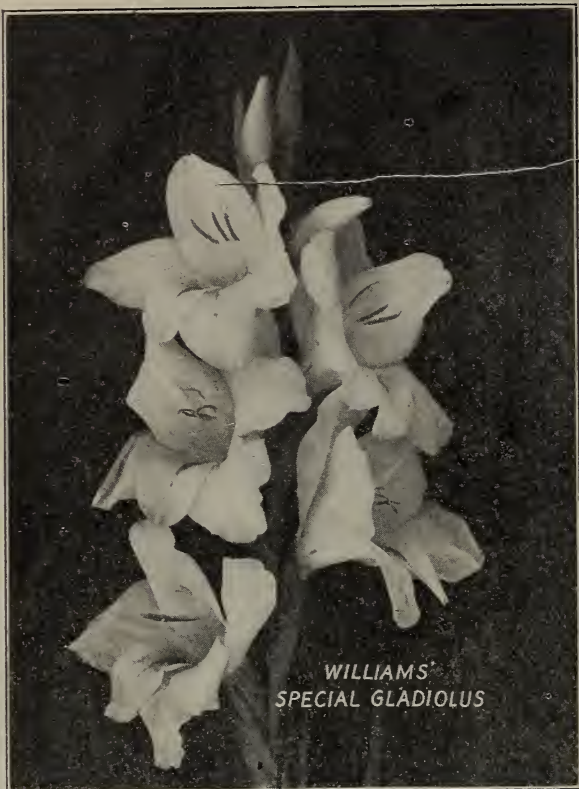
NAMED GLADIOLUS BULBS

America Immense flowers of exquisite soft pink, glistening in the sunlight as if sprinkled with diamond dust. Strong grower, free bloomer, tall, well furnished spike. 50c per doz.; \$3.50 per 100, postpaid.

Baron Hulot Full round flowers of rich velvet purple-violet, lighter in the throat, a small golden rib through the lower petals is contrastingly effective. \$1.00 per doz., postpaid.

Chicago White A fine white variety with lavender stripes on lower petals. Medium-sized flowers borne on a tall spike. 75c per doz. postpaid.

Mrs. Francis King A most beautiful flame-pink. Immense flowers on a spike growing 4 feet high, with eighteen to twenty flowers. A magnificent variety; 50c per doz., \$3.50 per 100, postpaid.



HARDY LILY BULBS

Lilium Auratum These charming bulbs are commonly known as the Golden Rayed Lily of Japan. (See engraving.) Plant the bulbs 5 inches deep and about 6 inches apart. Height 3 to 4 feet. Mammoth Bulbs, 35c each; dozen, \$3.00, postpaid.

Lilium Speciosum Rubrum Large bulbs, producing attractive white flowers shaded and spotted with rose and red. Mammoth Bulbs, 35c each; dozen, \$3.00, postpaid.

TUBEROSE

Double Dwarf Pearl The strain we offer is greatly improved, the flowers are of largest size, very double waxy white, and deliciously fragrant. 70c per doz.; \$5.00 per 100, postpaid.

Tuberoze Early Flowering Single 60c per dozen; \$4.50 per 100, postpaid.

Caladium (Elephant's Ear.) They produce enormous leaves, frequently 4 feet long by 3 feet wide; height, 4 to 5 feet.

First Size: Bulbs 15c each; \$1.50 per doz.; \$10.00 per 100.
Second Size: Bulbs, 10c each; \$1.00 per doz.; \$6.50 per 100.

CANNA ROOTS

King Humbert Its flowers, which under ordinary cultivation will measure 6 inches in diameter, of a brilliant orange-scarlet, with bright red markings. 5 feet. 15c each; \$1.50 per doz.; postpaid.

Yellow King Humbert Flowers of a beautiful yellow, lightly spotted red, with green foliage. The finest yellow Canna in existence. 15c each; \$1.50 per doz.; postpaid.



Lilium Auratum (Golden Rayed Lily of Japan.)

CHOICE DAHLIA ROOTS

Culture There are very few flowers that compare with the Dahlia in charming diversity of form and wide range of brilliant colors, and no other surpasses it for Autumn display. The roots are easily grown. They should be set out 3 feet apart after all danger of frost is over. The soil should be deeply dug, and well drained. A stiff clay should be avoided. A sunny situation is desirable. Place the roots horizontally, covering 5 to 6 inches deep, water well during dry weather. The plants should be supported by tying to stakes. The roots should be placed during Winter in a cool cellar, but not allowed to freeze.

NAMED VARIETIES



Madonna Dahlia

Achievement One of the latest novelties in Dahlias, clear, rich velvety maroon, with a frill or collar of white arranged around the golden yellow center. Each 35c; per doz., \$3.50.

Amber Queen (Miniature.) Rich clear amber, shaded apricot, extra free flowering. Each 25c; per doz., \$2.50.

Countess of Lonsdale Chrysanthemum-like flowers of deep salmon-red, in great abundance. Each 35c; per doz., \$3.50.

Cuban Giant or Dr. J. P. Kirkland. Dark velvety crimson; large. Stems long and wiry. Plants are very tall and sturdy. 25 cents each.

Golden Age (Quilled.) Sulphur yellow. Free flowering. Each 25c; per doz. \$2.50.

Jeanne Charmet These flowers are a most exquisite shade of lilac-pink dainty shading to pure white toward the center, with a tinge of yellow at the margin and measure 7 to 10 inches in diameter. Each 25c; per doz., \$2.50.

J. H. Jackson The finest black Cactus Dahlia in existence; superb as an exhibition flower. Color a perfectly gorgeous, deep velvety, blackish maroon. Gigantic in size. Every Dahlia lover should grow this variety. Each 25c; per doz. \$2.50.

Le Grande Manitou The color of this superb large flower is pure white, artistically striped, splashed and blotched deep violet purple. Each 35c; per doz. \$3.50.

Libelle Clear deep rose purple; splendid Chrysanthemum-like flowers. Each 25c; per doz. \$2.50.

Lucy Faucett One of the best of the fancy Dahlias, very large and free-flowering, color pale yellow, striped and splashed deep pink, with ball-shaped flowers on long stems. Each 20c; per doz. \$2.00.

Madonna Magnificent, New. Peony-flowered Dahlia. Flowers large white with pinkish shadings; stems long. Petals gracefully curved. A beauty in every sense of the word. (See engraving) Each 50c; doz. \$5.00.

Mina Burgle A new introduction of the Decorative type, and one of the finest to date—a champion variety, producing flowers of gigantic size and remarkable beauty. Color a glowing and most brilliant scarlet. Each 25c; per doz. \$2.50.

Queen Wilhelmina One of the largest and best of the white Peony-flowered Dahlias. Flowers produced upon long graceful stems, well above the foliage; its immense fluffy pure white flower, showing its beautiful golden center very prominently, lends an additional charm to this beautiful flower. Each 25c; per doz. \$2.50.

Robert Broomfield Pure white, quilled flowers. Tall grower. Each 25c; per doz. \$2.50.

Rose Pink Century A rose pink shade. Single flowers on long stems. Each 25c; per doz. \$2.50.

Souvenir de Doazon The largest Dahlia in existence. The color is a pleasing shade of orange-scarlet. Flowers are full to the center and often measure 9 inches and over in diameter, and can be forced to measure over 12 inches. Plant is a tall, vigorous grower. Should be in every garden. Each 25c; per doz. \$2.50.

Storm King The most reliable white Show Dahlia to date. Color, a pure white. Flowers produced on good stems, well above the foliage. Free-flowering 25c each.

Stradella Beautiful deep purple-crimson. Free flowering. Stems long and wiry. Each 25c; per doz. \$2.50.

Vivian A great favorite which received the admiration of everyone who saw its wonderful flowers, the color being white, effectively edged rose-violet. An extremely wonderful blending of color possessed only by the rare novelties. Quilled petals. 25 cents each.

W. B. Childs A very reliable Cactus variety. Color a beautiful dark maroon. Flowers extra large. 35 cents each.

GIANT SINGLE DAHLIAS

AMI BARRILET. Rich, pure garnet with fine dark foliage. 4 feet. Each 25c.

BLANCHE. The flowers are massive, color being a pale yellow at the base; tipped pink overlaid with pure white. Each 25c.

BIG CHIEF. Rich crimson with maroon shadings on margin. 5 feet. Each 25c.

CRIMSON CENTURY. Rich, deep, velvety crimson, streaked maroon, with rose halo around yellow disc. 4 feet. Each 25c.

HALL CAINE. Yellow ground, shaded and marked with reddish chestnut. 4 feet. Each 25c.

JACK. One of the gayest in color ever sent out; it is of brilliant fiery scarlet, with the base of the petals distinctly overlaid with golden yellow, particularly pleasing under artificial light. 4 feet. Each 25c.

NEWPORT BEAUTY. Each plant makes a wonderful bush of foliage which is covered with flowers of a bright satiny rose pink; a valuable variety for decorative purposes. Each 25c.

Dahlias Under Separate Cover

Red	Orange	Yellow	White
Maroon	Purple	Pink	Variegated

20 cents each; \$2.00 per dozen, postpaid.

Mixed Dahlia Roots

A charming selection of Mixed Dahlia Roots contains all the bright colors. 15c per root; \$1.00 per doz., postpaid.

If you want a fine deep green velvety lawn sow **WILLIAMS' EMERALD LAWN GRASS**. See description on inside front cover of this book.

WILLIAMS' High-Grade FERTILIZER

The yield and quality of vegetables rely upon continuous and rapid growth and it is neither economical nor wise to depend on the natural fertility of the soil or merely the application of stable manure for profitable crops. It has been demonstrated that Lettuce becomes bitter and tough, Radishes sharp and pungent, Beets stringy and tasteless where a delay in growth occurs. The principles of success with a garden consists of careful preparation of the soil, a good application of high grade fertilizers and thorough cultivation.

PRICES QUOTED ARE F. O. B. NORFOLK, AND SUBJECT TO CHANGE WITHOUT NOTICE.

12 Pounds Net
"WILLIAMS"
 SPECIAL
 Garden Fertilizer

—FOR—
 Vegetables and Flowers
WILLIAMS SEED COMPANY
 69-71 Commercial Place
 Norfolk, Va.

Guaranteed Analysis:

Available Phosphoric Acid	4.00
Water Soluble Nitrogen	1.92
Total Nitrogen	5.77
Equivalent to Ammonia	7.00
Potash	5.00

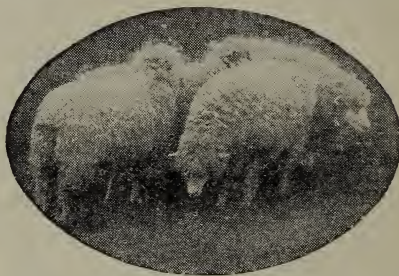
MANUFACTURED BY
International Agricultural Corporation
 Manufacturers High Grade Fertilizers
 Norfolk, Va.

Williams' Special Garden Fertilizer

For Vegetables, Lawns, and Flowers

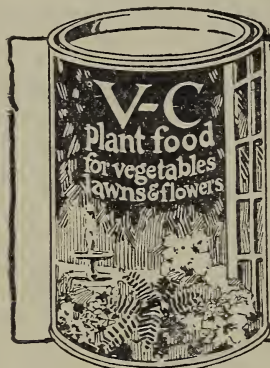
6-lb. Package, 75c; 12-lb. Package, \$1.25; 25-lb. Package, \$2.25.
 If wanted by Parcel Post, add postage at Zone rates.

200-lb. Bag, \$8.50; 2000-lbs. (1-ton) \$84.00

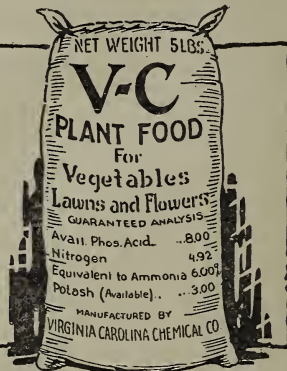


PULVERIZED SHEEP MANURE

SHEEP MANURE is the ideal fertilizer to use for the lawn, in the garden, the perennial border, shrubby beds, small fruit garden, flower beds, etc. 5-lbs. 25c; 10-lbs. 45c; 25-lbs. \$1.00; 100-lbs. \$3.25.



V-C
 plant food
 for vegetables
 lawns & flowers



V-C PLANT FOOD 1-lb. can 25c; 6-1/2-lb. can, \$1.00; 5-lb. bag, 75c; 10-lb. bag, \$1.25. If wanted by Parcel Post add postage at Zone rates.

Raw Ground Bone This is moderately fine and particularly adapted for general fertilizing; the finer particles are immediately beneficial, the coarse keeping up the supply of plant food for a long period.
 5-lbs. 40c; 10-lbs. 75c; 100-lbs. \$4.50; 1 ton, 2000-lbs. \$75.00

"LIMOID"

For garden or lawn use. It sweetens the soil and helps growth. Valuable for garden or lawn. Use 1-lb. to every 30 square feet.

10 POUND BAG, 50 CENTS

For a smooth, velvety Lawn, sow our "EMERALD LAWN GRASS SEED," see inside front cover.

Insecticides, Fungicides, Etc.

PRICES SUBJECT TO MARKET CHANGES. PURCHASERS PAY TRANSIT CHARGES.

ARSENATE OF LEAD, POWDERED. Better than paris green. Does not burn foliage. Has all advantages of Arsenate of Lead Paste, but goes twice as far, and is easier to handle. Dilute 1 pound to 50 gallons. 1b. 60 cents.



BLACK LEAF 40. (Nicotine sulphate.) Most effective spray to kill all plant-lice; as it kills by contact, it should be applied through an atomizer. Oz. bottle 25c; ½-lb. tin \$1.00.

BORDEAUX MIXTURE. (Liquid.) For blight, mildew, rust, and fungous diseases. Also prevents and cures black-rot and scab, and acts as a deterrent for insects on fruits and vegetables. 1 gallon makes 50 gallons. Pt. 40c; qt. 75c.

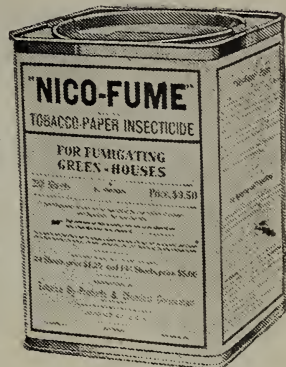
BORDEAUX MIXTURE. (Powdered.) Used same as Bordeaux Mixture Liquid. Also used for dry dusting. Dilutes 1 pound to 8 gallons of water. 1b. 45c; 5-lbs. \$2.00.

SLUG SHOT. Destroys worms on cabbage, currant, tomatoes, eggplants, and all leaf-eating insects. Lb. 25c.

DRY LIME-SULPHUR. Exactly like lime-sulphur except that the water has been taken out. No freight to pay on water, no leakage, never freezes. For fall and spring spraying, use 12 to 15 lbs. to 50 gallons water; stone fruits, 1½ to 2 lbs. to 50 gallons water. To the summer spray add 2 lbs. arsenate of lead to make a combined insecticide and fungicide. 1-lb. 40c; 5-lbs. \$1.50; 10-lbs. \$2.50.



NICO-FUME TOBACCO PAPER INSECTICIDE. A nicotine saturated paper for fumigating in green-houses. 24 sheets \$1.25; 144 sheets \$5.



TREE TANGLEFOOT. (Liquid.) Applied directly to the bark of trees; will catch all climbing insects. One application remains effective for three months. Lb. 50c; 3 lbs. \$1.45.

TOBACCO DUST. Lb. 15c; 5-lbs. 50c; 10-lbs. 75c; 100-lbs. \$6.00.

PARIS GREEN. An insoluble, poisonous powder for potato bugs, codling moth, worms, caterpillars, slugs and bugs. Applied as a powder it should be



mixed with plaster or flour, 100 parts to 1 part of Paris Green; in solution, mix 1-lb. in 200 to 300 gallons of water. Price ½-lb. package, 3 c; 1-lb. package, 50c; 5-lb. package, \$2.30.

PYROX. A combined insecticide and fungicide for all leaf-eating insects, blights and fungus troubles on trees, grapes, small fruits, potatoes, cucumbers, vegetables, roses, shrubbery, etc. It is a creamy paste, and needs only to be mixed with cold water to apply. Price, 1-lb. bottle, 50c.

Write for Special Low Prices on Large Quantities of Insecticides.

Inoculate Your Alfalfa, Clovers, Cowpeas, Soybeans, Vetches, and all Other Legume Crops With

Mulford Cultures

FOR LEGUMES

Small Cost
Easy to Use
Large Returns
No Labor Expense.



MULFORD CULTURES contain pure, tested strains of active, vigorous nitrogen-fixing bacteria, for inoculating seeds of legumes or soil.

MULFORD CULTURES are scientifically prepared and tested with the utmost care and skill. Enormous numbers of these very valuable and desirable bacteria are thus available to you in every package of Mulford Cultures and may be applied to your seed. The sealed bottle insures purity.

Legumes offer the best known means of maintaining soil fertility and rejuvenating over cropped and worn-out fields. They add both humus and nitrogen to your soil and thus increase your yield of wheat, cotton, corn, and other non-legume crops.

The United States Department of Agriculture and many State Agricultural Experiment Stations recommend inoculation of legumes with nitrogen-fixing bacteria to induce a prompt "catch" and increase your yield.

Mulford Cultures are Prepared for

ALFALFA (Lucerne)
BURR CLOVER
VELVET BEANS
CRIMSON CLOVER
COWPEAS

SWEET PEAS
SWEET CLOVER
SOY BEANS
GARDEN PEAS
RED CLOVER

PEANUTS
GARDEN BEANS
ALSIKE CLOVER
VETCH
LIMA BEANS

Always specify on your order what crop you want to inoculate, as there is a different strain of bacteria for each legume.

PRICES

5-acre size-----\$5.00 (A Dollar an Acre)
1-acre size-----\$1.50
¼-acre size-----.75

Small size (supplied only in 4 varieties, for Garden Peas, Garden Beans, Lima Beans, and Sweet Peas)-----\$0.35

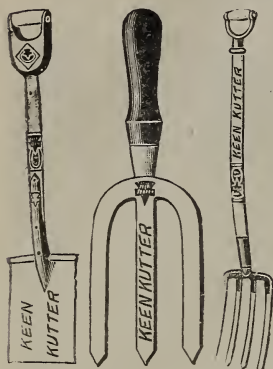
These Prices include delivery on freight shipments

FREE DESCRIPTIVE LITERATURE SENT UPON REQUEST

INOCULATE YOUR CLOVER WITH MULFORD CULTURES. ¼-acre size, 75c; 1-acre size, \$1.50; 5-acre size, \$5.00.

Garden Implements and Requisites

POSTAGE, EXPRESS OR FREIGHT CHARGES TO BE PAID BY PURCHASER



Forks—

Digging. Four prong,
\$1.25.

Spades—

Best steel. Long or short
handle, \$2.00.

Plant Sprinklers, Scollay's Rubber—

Small size ----- \$1.00
Large size ----- \$1.25

Trowels—

Forged steel. Each
6-in. ----- \$0.60
7-in. ----- .70
6-in. ----- .40



Savo

All Year Round

Flower and Plant Box

STANDARD STOCK SIZES AND PRICE LIST

Model A, 8-in. high, 9½-in. wide, 23-in. long-----	\$3.50
Model B, 8-in. high, 9½-in. wide, 29-in. long-----	4.00
Model C, 8-in. high, 9½-in. wide, 35-in. long-----	4.50
Model D, 8-in. high, 9½-in. wide, 41-in. long-----	5.00
Model E, 8-in. high, 12-in. wide, 12-in. long-----	3.50
Model F, 12-in. high, 12-in. wide, 12-in. long-----	4.00

These are outside measurements, including the ¾-inch roll rim.

FLOWER-POTS

Earthenware

Size	Each	Doz.	100
2-in.			\$ 1.75
2½-in.			2.40
3-in.			2.50
4-in.	\$0.10	.50	3.75
5-in.	.12	.90	6.50
6-in.	.15	1.35	10.50
7-in.	.25	2.25	16.00
8-in.	.35	3.25	23.00
10-in.	.60	6.00	45.00
12-in.	1.00	11.00	90.00



Flower-Pot Saucers, Earthenware

Size	Each	Doz.	100	Size	Each	Doz.	100
5-inch--	.10	\$.50	\$ 4.00	10-inch--	.30	\$2.50	\$18.00
6-inch--	.12	.80	6.00	12-inch--	.40	3.75	26.00
7-inch--	.15	1.25	8.00	14-inch--	.60	6.00	45.00
8-inch--	.20	1.50	10.00				

Paper Pots, Neponset

Round—Waterproof

Doz.	100	1000	Doz.	100	1000		
2½-inch-\$.10	\$.50	\$ 4.00	4 -inch-\$.20	\$1.00	\$ 8.50
3 -inch-	.10	.60	5.00	5 -inch-	.25	1.50	14.00
3½-inch-	.15	.80	7.00	6 -inch-	.30	2.10	20.00

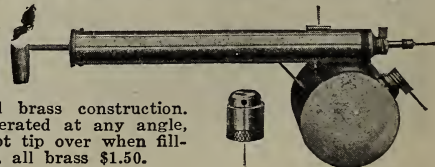
Labels, Wooden

Garden labels are in packages of 100; pot, plant and tree labels in packages of 1,000

Garden, 8-in., plain, \$0.75 per 100; painted, per 100	\$0.85
Garden, 12-in., plain, \$1.25 per 100; painted, per 100	1.45
Pot, 4-in., plain, \$1.50 per 1,000; painted, per 1,000	2.00
Pot, 5-in., plain, \$2.00 per 1,000; painted, per 1,000	2.35
Pot, 6-in., plain, \$2.35 per 1,000; painted, per 1,000	2.60

Auto Spray No. 25.

A continuous hand sprayer; will handle all solutions, insecticides and disinfectants. Can be used in the greenhouse, kitchen, gardens, for rose bushes and in the poultry house. All brass construction. Can be operated at any angle, and will not tip over when filling. Price, all brass \$1.50.



Rakes, Steel—

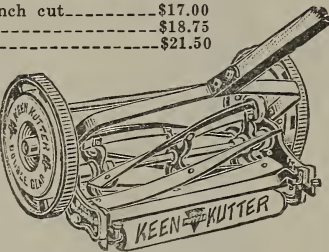
8-tooth -----	\$.85	12-tooth -----	1.15
10-tooth -----	1.00	16-tooth -----	1.40

Lawn Mowers

KEEN KUTTER. 14-inch cut----- \$17.00
16-inch cut----- \$18.75
18-inch cut----- \$21.50

OAK LEAF MOWER
14-inch cut--\$14.50
16-inch cut--\$15.75

RUN EASY LAWN
MOWER
14-inch cut--\$11.25
16-inch cut--\$12.00



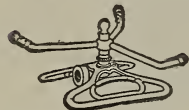
Hose—

Rubber, Non-kinkable.
In lengths of 25 feet or more; will stand 200 pounds pressure; does not kink. Guaranteed for one year. ¾-inch, coupled, per foot-----22c.

Sprinklers—

PRESTON three arm Lawn Sprinkler ----- \$2.25

FOUNTAIN or RING SPRINKLER.
Made of heavy brass-----\$1.25



Preston Sprinkler

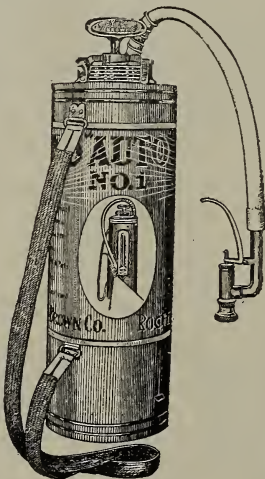
Baskets, Wire Hanging

	Painted Green
6-in. -----	40c
8-in. -----	45c
10-in. -----	65c
12-in. -----	70c

"Auto Spray" No. 1.

A popular sprayer for garden and orchard use. The 4-gallon tank is of heavy steel or brass as wanted. The pump is located within the tank where it is protected from injury. Requires no tools to take it apart. Two pumpings will discharge the contents. Equipped with an automatic shut-off nozzle (the Auto Pop Spray Nozzle) 2-ft. of ½-inch rubber hose and shoulder strap.

Galvanized Steel-----\$8.00
Brass ----- \$10.50



We carry a complete line of Garden Tools and Implements

CYPHERS INCUBATORS

Standard of the World

In offering the Standard Cyphers Incubators and Brooders to our customers, we believe we have selected the best hatching and brooding devices that can be had. They have been the foundation of success of nearly all successful poultry plants in this country, and are today the first choice of all experienced operators—the machine that experts and money-making poultry men buy.

If you are considering poultry raising as a money-making business, the price you pay for an incubator is of secondary importance. The machine that hatches out strong, vigorous, livable chicks, and that can be depended upon to take care of itself to the fullest extent—such an incubator is cheap at any price.

Cyphers Standard Incubators are built to hatch and to last; with ordinary care they should last a life-time. The sides and top are double-walled, with the wide spaces between the walls carefully packed with high-grade insulating material. Do not overlook the economy of fuel in a properly insulated incubator. You may save the extra cost of such a machine in a single season, in the saving of oil alone.

PRICES:

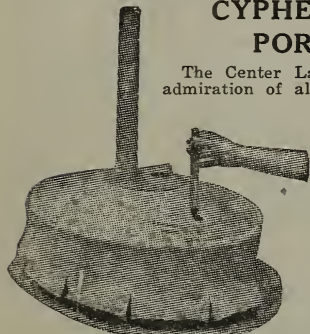
No. 0—Cyphers Standard Incubator, 70 egg size-----	Price \$42.00
No. 1—Cyphers Standard Incubator, 144 egg size-----	Price 51.00
No. 2—Cyphers Standard Incubator, 244 egg size-----	Price 68.00
No. 3—Cyphers Standard Incubator, 390 egg size-----	Price 85.00

CYPHERS CENTER LAMP PORTABLE HOVER

The Center Lamp Hover has won the warmest admiration of all classes. On the Rancocas Poultry Farms, Browns Mills, N. J., known as the "Million Egg Farm," there are 420 of these hovers in use every year.

The Center Lamp Hover can be used anywhere that there is protection for the chicks from wind and rain. It has made the expensive brooder house a mere relic of the past.

Although the Center Lamp Hover costs less than most any other standard brooding device, this is because of its simplicity and compactness. No expense is spared in making it, only the best of everything being used. The object kept in view is to produce not a cheap hover, but a perfect one. Price each-----\$18.00



Center Lamp Hover



Cyphers Standard Incubator



Adaptable Hover-----	Price Each \$21.50
Style "B" Outside Brooder-----	Price Each \$45.00
Incubator Thermometer, each-----	75c, postpaid

Write for a Complete Cyphers Catalog Mailed Free

Planet Jr. Farm and Garden Tools

Planet Jr. Tools are the greatest savers of time, labor, and money ever invented for the farm and garden. They pay for themselves in a single season in bigger and better crops, and last a lifetime. Fully guaranteed.

PLANTER JR. No. 4 COMBINED SEEDER AND CULTIVATOR—This tool combines in a single implement, a first-class hill-dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator, and a plow. It holds two quarts and sows in continuous rows, or drops in hills 4, 6, 8, 12 or 24 inches apart. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single

wheel hoe. Price, \$23.50. No. 4-D (As a Seeder only) \$18.75.

Purchasers pay transit charges on incubators and garden tools.



No. 33 PLANET JR. SINGLE WHEEL HOE—Just the thing for the family garden. Young or old will find in this tool a light-running wheel hoe that will save them hard work and help much to supply the table with fine vegetables. All complete like illustration. This is the No. 33 as a Wheel Hoe only. Price, \$8.00.

Complete Planet Jr. List on Application

Poultry Foods and Supplies



Blatchford's Milk Mash SHOULD BE EVERY CHICK'S FIRST FEED

Blatchford's Milk Mash is the favored starting and growing feed of the most prominent poultry-raisers in the country. It contains all the feeds and nutriment chicks need right from the start. It shields them from white diarrhea, bowel trouble and leg weakness.

This is the safest, the most economical and the best starting and growing feed on the market. Use it. 100 pounds, \$6.00; 25 pounds, \$1.75; 4 pounds, 50c.

Blatchford's Egg Mash

Blatchford's "Fill-the-Basket" Egg Mash supplies the hen with the surplus nourishment she requires for maximum egg production. It successfully solves the problem of securing eggs both winter and summer. 100 pounds \$5.25; 25 pounds \$1.50; 5 pounds 35c. Satisfaction guaranteed with every bag.



TRADE-MARK

Williams' Special Scratch Feed

This is a mixture of the finest grains and will make hens lay and keep them at it. 5 pounds 30c; 10 pounds 55c; 100 pounds \$3.25.

FINE GROUND MEAT. 5 pounds 40c; 10 pounds 75c; 100 pounds \$5.00.



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DR. HESS' INSTANT LOUSE KILLER—Shipping weight, 2 pounds and 3 pounds, price 30c and 60c package.

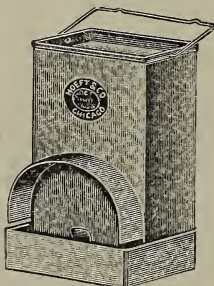
DR. HESS' DISINFECTANT AND DIP—1 pint bottle 50c; 1 quart, 75c.

Moe's Drop Bottom Wall Fountain

A convenient style of fountain, very popular with some breeders, that can be hung up on the walls of the poultry house, out of the litter.

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1-gallon, price each.....1.50
2-gallon, price each.....2.00



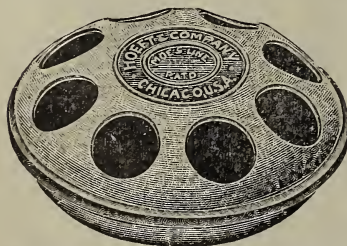
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8 feeding holes, each.....35c
12 feeding holes, each,.....50c

MEDICATED NEST EGGS

keep away vermin and acts as nest

egg at the same time. 8c each; 2 for 15c; 75c a dozen.



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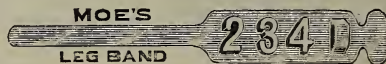
PRATT'S HEAD LICE OINTMENT—Price 30c, postpaid.

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ZONES					
in	to	to	to	over	in
pounds	0 to 3	3 to 5	5 to 8	8 to 10	to 10 pounds or more
every bulb					
of secure					
100 per					

ZONES					
in	to	to	to	over	in
pounds	0 to 3	3 to 5	5 to 8	8 to 10	to 10 pounds or more
every bulb					
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Weight in Pounds	Local	ZONES								Weight in Pounds	Local	ZONES							
		1st—Up to 50 miles	2d—50 to 150 miles	3d—150 to 300 miles	4th—300 to 600 miles	5th—600 to 1000 miles	6th—1000 to 1400 miles	7th—1400 to 1800 miles	8th—Over 1800 miles			1st—Up to 50 miles	2d—50 to 150 miles	3d—150 to 300 miles	4th—300 to 600 miles	5th—600 to 1000 miles	6th—1000 to 1400 miles	7th—1400 to 1800 miles	8th—Over 1800 miles
1	\$0.65	\$0.05	\$0.05	\$0.06	\$0.07	\$0.08	\$0.09	\$0.11	\$0.12	56	\$0.23	\$0.40	\$0.40	\$0.76	\$1.17	\$2.18	\$2.89	\$3.61	\$4.32
2	.05	.06	.06	.08	.11	.11	.17	.21	.24	57	.23	.41	.41	.78	1.51	2.24	2.97	3.71	4.44
3	.06	.07	.07	.10	.15	.15	.20	.25	.31	58	.24	.42	.42	.80	1.55	2.30	3.05	3.81	4.56
4	.07	.08	.08	.12	.19	.19	.25	.33	.41	59	.24	.43	.43	.82	1.59	2.36	3.13	3.91	4.68
5	.07	.09	.09	.14	.23	.23	.32	.41	.51	60	.25	.44	.44	.84	1.63	2.42	3.21	4.01	4.80
6	.08	.10	.10	.16	.27	.27	.38	.49	.61	61	.25	.45	.45	.86	1.67	2.48	3.29	4.11	4.92
7	.08	.11	.11	.18	.31	.31	.44	.57	.71	62	.26	.46	.46	.88	1.71	2.54	3.37	4.21	5.04
8	.09	.12	.12	.20	.35	.35	.50	.65	.81	63	.26	.47	.47	.90	1.75	2.60	3.45	4.31	5.16
9	.09	.13	.13	.22	.39	.39	.56	.73	.91	64	.27	.48	.48	.92	1.79	2.66	3.53	4.41	5.28
10	.10	.14	.14	.24	.43	.43	.62	.81	1.01	65	.27	.49	.49	.94	1.83	2.72	3.61	4.51	5.40
11	.10	.15	.15	.26	.47	.47	.68	.89	1.11	66	.28	.50	.50	.96	1.87	2.78	3.69	4.61	5.52
12	.11	.16	.16	.28	.51	.51	.74	.97	1.22	67	.28	.51	.51	.98	1.91	2.84	3.77	4.71	5.66
13	.11	.17	.17	.30	.55	.55	.80	1.05	1.31	68	.29	.52	.52	1.00	1.95	2.90	3.85	4.81	5.76
14	.12	.18	.18	.32	.58	.58	1.13	1.41	1.68	69	.29	.53	.53	1.02	1.99	2.96	3.93	4.91	5.88
15	.12	.19	.19	.34	.63	.63	.92	1.21	1.51	70	.30	.54	.54	1.04	2.03	3.02	4.01	5.01	6.00
16	.13	.20	.20	.36	.67	.67	.98	1.29	1.61	71	.30	.55	.55	1.06					
17	.13	.21	.21	.38	.71	.71	1.04	1.37	1.71	72	.31	.56	.56	1.08					
18	.14	.22	.22	.40	.75	.75	1.10	1.45	1.81	73	.31	.57	.57	1.10					
19	.14	.23	.23	.42	.79	.79	1.16	1.53	1.91	74	.32	.58	.58	1.12					
20	.15	.24	.24	.44	.83	.83	1.22	1.61	2.01	75	.32	.59	.59	1.14					
21	.15	.25	.25	.46	.87	.87	1.28	1.69	2.11	76	.33	.60	.60	1.16					
22	.16	.26	.26	.48	.91	.91	1.34	1.77	2.21	77	.33	.61	.61	1.18					
23	.16	.27	.27	.50	.95	.95	1.40	1.81	2.31	78	.34	.62	.62	1.20					
24	.17	.28	.28	.52	.99	.99	1.46	1.93	2.41	79	.34	.63	.63	1.22					
25	.17	.29	.29	.54	1.03	1.03	1.52	2.01	2.51	80	.35	.64	.64	1.24					
26	.18	.30	.30	.56	1.07	1.07	1.58	2.09	2.61	81	.35	.65	.65	1.26					
27	.18	.31	.31	.58	1.11	1.11	1.64	2.17	2.71	82	.36	.66	.66	1.28					
28	.19	.32	.32	.60	1.15	1.15	1.70	2.25	2.81	83	.36	.67	.67	1.30					
29	.19	.33	.33	.62	1.19	1.19	1.76	2.33	2.91	84	.37	.68	.68	1.32					
30	.20	.34	.34	.64	1.23	1.23	1.82	2.41	3.01	85	.37	.69	.69	1.34					
31	.20	.35	.35	.66	1.27	1.27	1.88	2.49	3.11	86	.38	.70	.70	1.36					
32	.21	.36	.36	.68	1.31	1.31	1.94	2.57	3.21	87	.38	.71	.71	1.38					
33	.21	.37	.37	.70	1.35	1.35	2.00	2.65	3.31	88	.39	.72	.72	1.40					
34	.22	.38	.38	.72	1.39	1.39	2.06	2.73	3.41	89	.39	.73	.73	1.42					
35	.22	.39	.39	.74	1.43	1.43	2.12	2.81	3.51	90	.40	.74	.74	1.44					

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